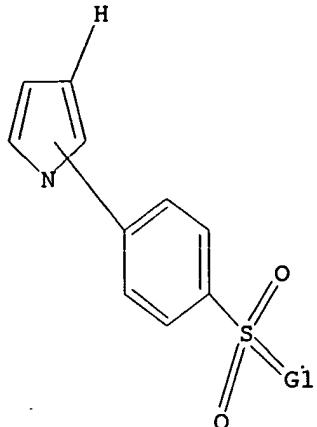


=> d  
L1 HAS NO ANSWERS  
L1 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s 11  
SAMPLE SEARCH INITIATED 17:36:09 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED.- 6611 TO ITERATE

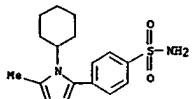
15.1% PROCESSED 1000 ITERATIONS 2 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 127352 TO 137088  
PROJECTED ANSWERS: 46 TO 482

L2 2 SEA SSS SAM L1

=> d scan

L2 2 ANSWERS REGISTRY COPYRIGHT 2001 ACS  
IN Benzenesulfonamide, 4-(1-cyclohexyl-5-methyl-1H-pyrrol-2-yl)- (9CI)  
MF C17 H22 N2 O2 S



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 11 ful  
FULL SEARCH INITIATED 17:36:26 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 131408 TO ITERATE

100.0% PROCESSED 131408 ITERATIONS  
SEARCH TIME: 00.00.05

152 ANSWERS

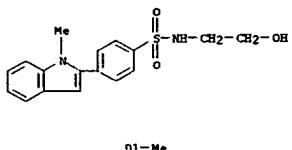
L3 152 SEA SSS FUL L1

=> s 13 and caplus/lc  
17702225 CAPLUS/LC  
L4 150 L3 AND CAPLUS/LC

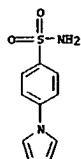
=> s 13 not 14  
L5 2 L3 NOT L4

=> d 1-2

LS ANSWER 1 OF 2 REGISTRY COPYRIGHT 2001 ACS  
 RN 180788-24-3 REGISTRY  
 CN Benzenesulfonamide,  
 N-(2-hydroxymethyl)ethyl)-4-(1-methyl-1H-indol-2-yl)-  
 (9CI) (CA INDEX NAME)  
 MF C18 H20 N2 O3 S  
 CI IBS, COM  
 SR CA



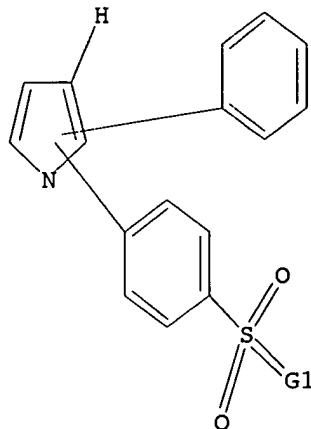
LS ANSWER 2 OF 2 REGISTRY COPYRIGHT 2001 ACS  
 RN 5439-30-2 REGISTRY  
 CN Benzenesulfonamide, 4-(1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C10 H10 N2 O2 S  
 LC STN Files: BEILSTEIN\*  
 (\*File contains numerically searchable property data)



=>  
Uploading 09678218.str

L6 STRUCTURE UPLOADED

=> d  
L6 HAS NO ANSWERS  
L6 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s 16 subset=13 ful  
FULL SUBSET SEARCH INITIATED 17:39:27 FILE 'REGISTRY'  
FULL SUBSET SCREEN SEARCH COMPLETED - 140 TO ITERATE

100.0% PROCESSED 140 ITERATIONS 93 ANSWERS  
SEARCH TIME: 00.00.01

L7 93 SEA SUB=L3 SSS FUL L6

=> s 17 and caplus/lc  
17702225 CAPLUS/LC  
L8 93 L7 AND CAPLUS/LC

=> fil caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	177.52	177.67

FILE 'CAPLUS' ENTERED AT 17:39:39 ON 17 APR 2001

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FILE COVERS 1967 - 17 Apr 2001 VOL 134 ISS 17  
FILE LAST UPDATED: 16 Apr 2001 (20010416/ED)

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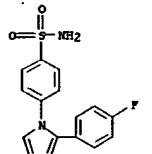
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```
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L9          15 L7
=> d 1-15 ibib abs hitstr
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L9 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:637744 CAPLUS  
 DOCUMENT NUMBER: 134:39080  
 TITLE: A method for including protein flexibility in protein-ligand docking: improving tools for database mining and virtual screening  
 AUTHOR(S): Broughton, B. B.  
 CORPORATE SOURCE: Merck, Sharp & Dohme Neuroscience Research Centre, Essex, UK  
 SOURCE: J. Mol. Graphics Modell. (2000), 18(3), 247-257  
 CODEN: JMGRF1 ISSN: 1093-3263  
 PUBLISHER: Elsevier Science Inc.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Second-generation methods for docking ligands into their biol. receptors, such as FLOG, provide for flexibility of the ligand but not of the receptor. Mol. dynamics based methods, such as free energy perturbation, account for flexibility, solvent effects, etc., but are very time consuming. We combined the use of statistical anal. of conformational samples from short-run protein mol. dynamics with grid-based docking protocols and demonstrated improved performance in two test cases. Our statistical anal. explores the importance of the av. strength of a potential interaction with the biol. target and optionally applies a weighting depending on the variability in the strength of the interaction seen during dynamics simulation. Using these methods, we improved the no. of known dihydrololate reductase ligands found in the top-ranked 10% of a database of drug-like mols., in searches based on the three-dimensional structure of the protein. These methods are able to match the ability of manual docking to assess likely inactivity on steric grounds and indeed to rank order ligands from a homologous series of cyclooxygenase-2 inhibitors with good correlation to their true activity. Furthermore, these methods reduce the need for human intervention in setting up mol. docking exptn.  
 IT 109501-09-5  
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (method for including protein flexibility in protein-ligand docking -)

L9 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 improving tools for database mining and virtual screening)  
 RN 109501-09-5 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32  
 REFERENCE(S):  
<http://www.rcsb.org/pdb/>  
 (4) Bernstein, F; J Mol Biol, 1977, V112, P535 CAPLUS  
 (5) Bertenshaw, S; Bioorg Med Chem Lett 1995, V5, P2919 CAPLUS  
 (6) Bolin, J; J Biol Chem 1982, V257, P13650 CAPLUS  
 (7) Cornell, W; J Am Chem Soc 1995, V117, P5179 CAPLUS  
 (9) Goodsell, D; J Mol Recognit 1996, V9, P1 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:456950 CAPLUS  
 DOCUMENT NUMBER: 133:84244  
 TITLE: Method of using a cyclooxygenase-2 inhibitor and an integrin antagonist as a combination therapy in the treatment of neoplasia  
 INVENTOR(S): James J.; McKearn, John P.; Gordon, Gary; Cunningham, Gately, Stephen T.; Koki, Alane T.; Masferrer, Jaime L.  
 PATENT ASSIGNEE(S): G.D. Searle & Co., USA  
 SOURCE: PCT Int. Appl., 348 pp.  
 CODEN: PIXKD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9  
 PATENT INFORMATION:  

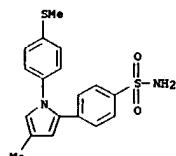
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WO 2000038786	A2	20000706	WO 1999-US30692	19991222
WO 2000038786	A3	20010308		

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 PRIORITY APPLN. INFO.: US 1998-113786 19981223  
 AB Methods are provided to treat or prevent neoplasia disorders in a mammal using a combination of a cyclooxygenase-2 inhibitor, an integrin antagonist and an antineoplastic agent.  
 IT 197904-84-197905-01-4  
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cyclooxygenase-2 inhibitor and integrin antagonist in combination for neoplasia treatment)  
 RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

L9 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

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 =S-NH<sub>2</sub>  
  
 Me.

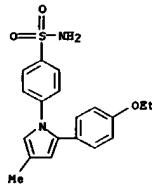
RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide, 4-[4-methyl-1-(4-(methylthio)phenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



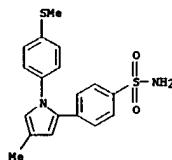
L9 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:456927 CAPLUS  
 DOCUMENT NUMBER: 133:84243  
 TITLE: Method of using a cyclooxygenase-2 inhibitor and one or more antineoplastic agents as a combination therapy in the treatment of neoplasia  
 INVENTOR(S): McKearn, John P.; Gordon, Gary; Cunningham, Jaime L.; Gately, Stephen T.; Koki, Alane T.; Masferrer, L.;  
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA  
 SOURCE: PCT Int. Appl., 236 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000038730	A2	20000706	WO 1999-US30693	19991222
WO 2000038730	A3	20001102		
V: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: US 1998-113786 19981223 AB Methods are provided to treat or prevent neoplasia disorders in a mammal using a combination of a cyclooxygenase-2 inhibitor and an antineoplastic agent. IT 197904-84-0 197905-01-4 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cyclooxygenase-2 inhibitor-antineoplastic agent combination for neoplasia treatment)				

L9 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)



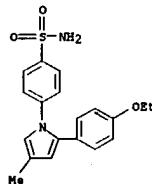
RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



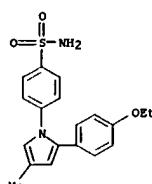
L9 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:456913 CAPLUS  
 DOCUMENT NUMBER: 133:84241  
 TITLE: Combination therapy of radiation and a cyclooxygenase 2 (COX-2) inhibitor for the treatment of neoplasia  
 INVENTOR(S): McKearn, John P.; Masferrer, Jaime L.; Milas, Lukas  
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA  
 SOURCE: PCT Int. Appl., 96 pp.  
 CODEN: PIIXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000038716	A1	20000706	WO 1999-US30669	19991222
V: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: US 1998-113786 19981223 US 1999-385214 19990827 AB Methods are provided to treat or prevent neoplasia disorders in a mammal using a combination of radiation therapy and a COX-2 inhibitor. IT 197904-84-0 197904-84-0B, derivs. 197905-01-4 197905-01-4D, derivs. RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (COX-2 inhibitor-radiotherapy combination for neoplasia treatment) RN 197904-84-0 CAPLUS CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)				

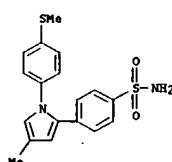
L9 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

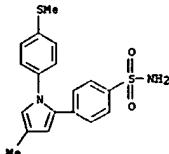


RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide,  
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 (9CI) (CA INDEX NAME)



L9 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)

REFERENCE COUNT:  
REFERENCE(S):

(1) Gordon, G; WO 9816227 A 1998 CAPLUS  
 (2) Milam, L; Journal of the National Cancer  
 Institute (Bethesda) 1999, V91(17), P1501 CAPLUS  
 (3) Sankyo Co; EP 0927555 A 1999 CAPLUS

Institute

L9 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:441655 CAPLUS  
 DOCUMENT NUMBER: 133:68922  
 TITLE: Method of using a cyclooxygenase-2 inhibitor and a matrix metalloproteinase inhibitor as a

combination therapy in the treatment of neoplasia  
 INVENTOR(S): McKearn, John P.; Gordon, Gary; Cunningham, James  
 Jaime

J.: Gately, Stephen T.; Koki, Alane T.; Masferrer,

PATENT ASSIGNEE(S): L. G.D. Searle & Co., USA  
 SOURCE: PCT Int. Appl., 437 pp.  
 CODEN: PIXDD2

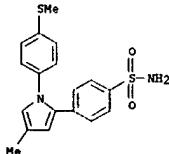
DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000037107	A2	20000629	WO 1999-US30776	19991222
WO 2000037107	A3	20010201		
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CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GE, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.: US 1998-113786 19981223				
AB Methods are provided to treat or prevent neoplasia disorders in a mammal using a combination of a cyclooxygenase-2 inhibitor, a matrix metalloproteinase inhibitor and an antineoplastic agent.				
IT 197904-84-0 197905-01-4				
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
in combination therapy for neoplasia treatment)				
RN 197904-84-0 CAPLUS				

L9 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)



L9 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:181022 CAPLUS  
 DOCUMENT NUMBER: 132:207760  
 TITLE: Preparation of 4-methyl-1,2-diarylpyrroles and and their intermediates

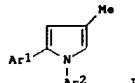
INVENTOR(S): Noguchi, Yasuo; Saito, Toshinori; Fujimoto, Katsuhiiko

Takabayashi, Toyonori  
 Sankyo Co., Ltd., Japan  
 Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKOKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1

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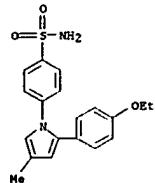
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000080078	A2	20000321	JP 1999-179478	19990625
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GI			CASREACT 132:207760; MARPAT 132:207760	



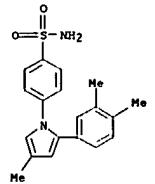
AB Pyrroles I [Ar1, Ar2 = (un)substituted C6-10 aryl], useful as analgesic-antipyretic agents (no data), are prep'd. by reaction of Ar1COCH2C(Me)2NO2 [Ar1 = same as I] with MeNO2 in the presence of bases, treatment of Ar1COCH2C(Me)2NO2 [Ar1 = same as I] with bases, reaction with R1OH (R1 = C1-6 alkyl) and R2OH (R2 = C1-6 alkyl) or HOR1R2OH [R1R2 = C1-4 alkyl-(un)substituted trimethylene], and reaction of Ar1COCH2C(Me)2OR1 OR2 [Ar1, R1, R2 = same as above] with Ar2NH2 (Ar2 = same as I) under acidic condition. 1-(3,4-Dimethylphenyl)-2-buten-1-one was reacted with MeNO2 in the presence of DBU under ice cooling for 1 h, treated with NaOMe, and reacted with neopentylglycol in the presence H2SO4 in MeOH at room temp. for 1 h to give 3-(5-dimethyl-1,3-dioxan-2-yl)-1-(3,4-dimethylphenyl)butan-1-one, which was reacted with sulfanilamide in PrOH-AcOH mixt. at 100 degree. for 3 h to give 71.3% 4-methyl-2-(3,4-dimethylphenyl)-1-(4-sulfamoylphenyl)pyrrole.

IT 197904-84-0P, 4-Methyl-2-(4-ethoxyphenyl)-1-(4-sulfamoylphenyl)pyrrole 197904-95-3P, 4-Methyl-2-(3-

L9 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 dimethoxyphenyl)-1-(4-sulfamoylphenyl)pyrrole 260415-79-0,  
 4-Methyl-2-(2,5-dimethoxyphenyl)-1-(4-sulfamoylphenyl)pyrrole  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP  
 (Preparation)  
 (prepn. of methyldiarylpyroles by addn. of unsatd. aryl ketones  
 with  
 HNO<sub>2</sub>, alkylation, and cyclization with amines)  
 RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI)  
 (CA INDEX NAME)

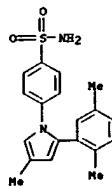


RN 197904-95-3 CAPLUS  
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 (9CI) (CA INDEX NAME)



RN 260415-79-0 CAPLUS  
 CN Benzenesulfonamide,  
 4-[2-(2,5-dimethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-

L9 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 (9CI) (CA INDEX NAME)



L9 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1999:795808 CAPLUS  
 DOCUMENT NUMBER: 132:35714

TITLE: Preparation of heterocyclyl sulfonylbenzene compounds

as anti-inflammatory/analgesic agents.

INVENTOR(S): Ando, Kazuo; Kato, Tomoki; Kawai, Akiyoshi;

Nomomura,

PATENT ASSIGNEE(S): Pfizer Pharmaceuticals Inc., USA

SOURCE: PCT Int. Appl., 236 pp.

CODEN: PIXKD2

DOCUMENT TYPE: Patent

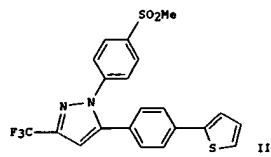
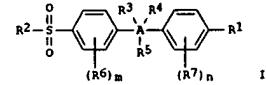
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

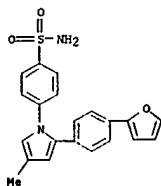
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964415	A1	19991216	WO 1999-IB970	19990531
DE, W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MR, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9938414	A1	19991230	AU 1999-38414	19990531
EP 1086097	A1	20010328	EP 1999-921043	19990531
IE, FI	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT,			
PRIORITY APPLN. INFO.:		WO 1998-IB912	19980611	
OTHER SOURCE(S):	MARPAT 132:35714	WO 1999-IB970	19990531	
GI				

L9 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



AB This invention provides a compd. of formula (I) or its pharmaceutically acceptable salt thereof [wherein A is partially unsatd. or unsatd. five membered heterocyclic, or partially unsatd. or unsatd. five membered carbocyclic, wherein the 4-(sulfonyl)phenyl and the 4-substituted Ph in formula I are attached to ring atoms of Ring A, which are adjacent to each other; R1 is optionally substituted aryl or heteroaryl, with the proviso that when A is pyrazole, R1 is heteroaryl; R2 is Cl-4 alkyl, halo-substituted Cl-4 alkyl, Cl-4 alkylamino, Cl-4 dialkylamino or amino; R3, R4 and R5 are independently hydrogen, halo, Cl-4 alkyl, halo-substituted Cl-4 alkyl or the like; or two of R3, R4 and R5 are taken together with atoms to which they are attached and form a 4-7 membered ring; R6 and R7 are independently hydrogen, halo, Cl-4 alkyl, halo-substituted Cl-4 alkyl, Cl-4 alkoxy, Cl-4 alkylthio, Cl-4 alkylamino or N,N-di Cl-4 alkylamino; and m and n are independently 1, 2, 3 or 4]. This invention also provides a pharmaceutical compn. useful for the treatment of a medical condition in which prostaglandins are implicated as pathogens. This invention relates to compd. and pharmaceutical compns. for the treatment of cyclooxygenase mediated diseases. These compds. inhibit the biosynthesis of prostaglandins by intervention of the action of the enzyme cyclooxygenase on arachidonic acid, and are therefore useful.

L9 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 in the treatment or alleviation of inflammation and other  
 inflammation  
 assoc'd. disorders, such as arthritis, in mammals (no data). Thus,  
 To a  
 stirred soln. of 1-[4-(Methylsulfonyl)phenyl]-5-(4-bromophenyl)-3-  
 trifluoromethyl-1H-pyrazole (0.27 g) in DMF (8 mL) was added  
 3-thiophenboronic acid (0.09 g),  
 bis(triphenylphosphine)palladium(II)chloride (0.05 g) and satd. NaHCO<sub>3</sub> soln. (2 mL) at room temp. under  
 nitrogen.  
 The mixt. was heated at reflux temp. for 16 h, and cooled down to  
 room  
 temp. to give, after purifn. by flash chromatog. eluting with Et  
 acetate/hexane (1/1),  
 1-[4-(Methylsulfonyl)phenyl]-5-[4-(2-thienyl)phenyl]-  
 3-trifluoromethyl-1H-pyrazole (II) in 64 % yield.  
 IT 252559-49-2  
 RL: BAC (Biological activity or effector, except adverse); SPN  
 (Synthetic  
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)  
 (prepn. of heterocyclic sulfonylbenzene compds. as cyclooxygenase  
 inhibitors; prostaglandin biosynthesis inhibitors,  
 anti-inflammatory  
 and analgesic agents)  
 RN 252559-49-2 CAPLUS  
 CH Benzenesulfonamide,  
 4-(2-[4-(2-furanyl)phenyl]-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)



REFERENCE COUNT:  
 REFERENCE(S): 16  
 CAPLUS (1) Angelini Ricerche SPA; WO 9822442 A 1998  
 (3) Bayer AG; DE 2310446 A 1974 CAPLUS  
 (4) Berger, L; US 3896145 A 1975 CAPLUS

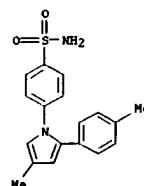
L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1399:440003 CAPLUS  
 DOCUMENT NUMBER: 131:82985  
 TITLE: Use of cyclooxygenase-2 inhibitors for the  
 treatment  
 and prevention of tumors, tumor-related  
 disorders and  
 cachexia  
 INVENTOR(S): Kurukata, Shinichi; Hanai, Masaharu; Kanai,  
 Saori;  
 Kimura, Tomio  
 Sankyo Company Limited, Japan  
 SOURCE: Eur. Pat. Appl., 49 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 927555	A1	19990707	EP 1998-310510	19981221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,				
PT,	IE, SI, LT, LV, FI, RO			
JP 11246403	A2	19990914	JP 1998-362188	19981221
ZA 9811840	A	19990623	ZA 1998-11840	19981223
NO 9806089	A	19990625	NO 1998-6089	19981223
AU 9898225	A1	19990715	AU 1998-98225	19981224
CH 1230407	A	19991006	CN 1998-111656	19981224
BR 9805544	A	20000328	BR 1998-5544	19981224
JP 11279078	A2	19991012	JP 1999-14059	19990122
JP 2000095685	A2	20000404	JP 1999-176139	19990623
JP 2000159690	A2	20000613	JP 1999-176140	19990623
PRIORITY APPLN. INFO.:			JP 1997-354499	19971224
			JP 1998-15306	19980128
			JP 1998-204907	19980721
			JP 1998-269444	19980924

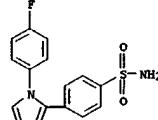
OTHER SOURCE(S): MARPAT 131:82985  
 AB Certain cyclooxygenase-2 inhibitors are useful for the treatment and  
 prevention of tumors and tumor-related disorders and cachexia.  
 IT 197904-30-6 197904-31-7 197904-32-8  
 197904-69-1 197904-79-3 197904-81-7  
 197904-82-8 197904-83-9 197904-84-0  
 197904-86-8 197904-88-4 197904-94-2  
 197904-95-3 197904-96-4 197904-99-7  
 197905-00-3 197905-01-4 197905-02-5  
 197905-03-9 197905-05-0 197905-18-0  
 197905-18-3 197905-20-7 197905-47-8  
 197905-48-9  
 RL: BAC (Biological activity or effector, except adverse); THU  
 (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (cyclooxygenase-2 inhibitors for treatment and prevention of  
 tumors,  
 tumor-related disorders, and cachexia)  
 RN 197904-30-6 CAPLUS

L9 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 (5) Black, C; WO 9619469 A 1996 CAPLUS  
 (6) Callaghan, P; J Chem Soc Perkin Trans 1 1975,  
 14,  
 P1386 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

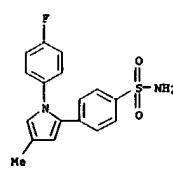
L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-[4-methyl-2-(4-methylphenyl)-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)



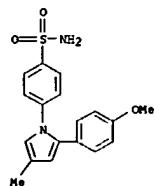
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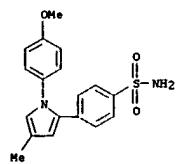
RN 197904-32-8 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-4-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 RN 197904-69-1 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

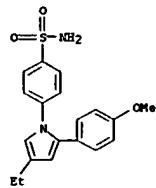


RN 197904-79-3 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-4-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

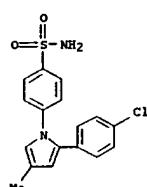


RN 197904-81-7 CAPLUS  
 CN Benzenesulfonamide, 4-[4-ethyl-2-(4-methoxyphenyl)-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



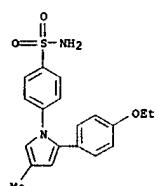
RN 197904-82-8 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-chlorophenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)



RN 197904-83-9 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-2-(4-(methylthio)phenyl)-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

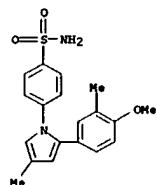
L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

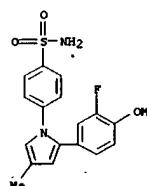


RN 197904-86-2 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(4-methoxy-3-methylphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

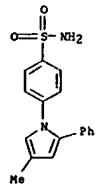


RN 197904-88-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-[2-(3-fluoro-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

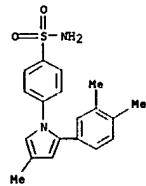


RN 197904-94-2 CAPLUS  
 CN Benzenesulfonamide, 4-(4-methyl-2-phenyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

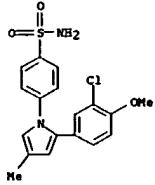


RN 197904-95-3 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-  
(9CI) (CA INDEX NAME)

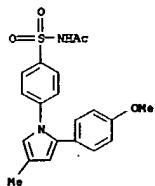


RN 197904-96-4 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3-chloro-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-  
y1)- (9CI) (CA INDEX NAME)

L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

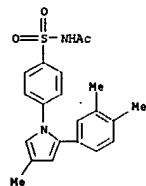


RN 197904-99-7 CAPLUS  
CN Acetamide, N-[4-(2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-  
y1)phenyl]sulfonyl- (9CI) (CA INDEX NAME)

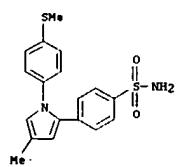


RN 197905-00-3 CAPLUS  
CN Acetamide, N-[4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-  
y1)phenyl]sulfonyl- (9CI) (CA INDEX NAME)

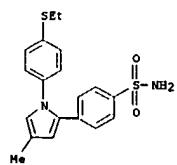
L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



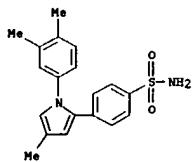
RN 197905-01-4 CAPLUS  
CN Benzenesulfonamide,  
4-(1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)



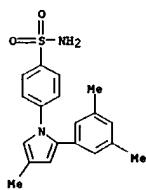
RN 197905-02-5 CAPLUS  
CN Benzenesulfonamide,  
4-(1-[4-(ethylthio)phenyl]-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)



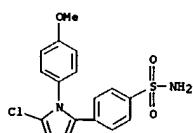
RN 197905-03-6 CAPLUS

L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
CN Benzenesulfonamide,  
4-(1-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

RN 197905-05-8 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,5-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-  
(9CI) (CA INDEX NAME)

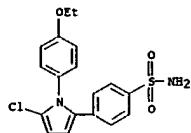


RN 197905-15-0 CAPLUS  
CN Benzenesulfonamide, 4-(5-chloro-1-(4-methoxyphenyl)-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

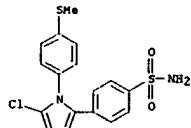


## L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-18-3 CAPLUS  
 CN Benzenesulfonamide, 4-(5-chloro-1-(4-ethoxyphenyl)-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)



RN 197905-20-7 CAPLUS  
 CN Benzenesulfonamide,  
 4-(5-chloro-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)

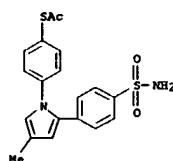


RN 197905-47-8 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-mercaptophenyl)-4-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



## L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-48-9 CAPLUS  
 CN Ethanethioic acid,  
 S-[4-(2-(4-(aminosulfonyl)phenyl)-4-methyl-1H-pyrrol-1-  
 yl)phenyl] ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:  
 REFERENCE(S):  
 CAPLUS

9  
 (1) Futaki, N; PROSTAGLANDINS 1994, V47, P55

(2) G D Searle & Co; WO 9806708 A 1998 CAPLUS  
 (3) Japan Tobacco Inc; JP 09052882 A CAPLUS  
 (4) Japan Tobacco Inc; EP 0745596 A 1996 CAPLUS  
 (5) Li, J; JOURNAL OF MEDICINAL CHEMISTRY 1995,  
 V38 (22), P4570 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

## L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:420882 CAPLUS

DOCUMENT NUMBER: 131:82957

TITLE: Diphenylpyrrole derivatives as cyclooxygenase-2  
 inhibitors

INVENTOR(S): Kimura, Fumio; Noguchi, Yasuo; Nakao, Akira;  
 Suzuki, Kiseuke; Ushiyama, Shigeru; Kawahara, Akihiro;

Miyamoto, Masaaki

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 69 pp.

CODEN: JDDCAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11180871	A2	19990706	JP 1998-269718	19980924
PRIORITY APPLN. INFO.:			JP 1997-261378	19970926
OTHER SOURCE(S):	MARPAT 131:82957			
AB	The title compds. selectively inhibit the activity of cyclooxygenase-2, thereby inhibit the prodn. of cytokines and leukotrienes and prevent bone resorption. The invention compds. and their pharmaceutically acceptable salts are also effective as analgesics, anti-inflammatories, and antipyretics. For example, 1-(4-methoxyphenyl)-2-(4- methysulfonylphenyl)pyrrole was prep'd. and tested for its biol. activities.			
IT	189501-09-5P 197904-28-2P 197904-30-6P 197904-31-7P 197904-32-8P 197904-52-2P 197904-68-0P 197904-69-1P 197904-74-8P 197904-75-9P 197904-76-0P 197904-77-1P 197904-78-2P 197904-79-3P 197904-80-6P 197904-81-7P 197904-82-8P 197904-83-9P 197904-84-0P 197904-85-1P 197904-86-2P 197904-87-3P 197904-88-4P 197904-89-5P 197904-91-9P 197904-93-1P 197904-94-2P 197904-95-3P 197904-96-4P 197904-99-7P 197905-00-3P 197905-01-4P 197905-05-8P 197905-07-0P 197905-08-1P 197905-09-2P 197905-10-5P 197905-11-6P 197905-12-7P 197905-13-8P 197905-14-9P 197905-15-0P 197905-16-1P 197905-17-2P 197905-18-3P 197905-20-7P 197905-21-8P 197905-23-0P 197905-26-3P 197905-27-4P 197905-28-5P 197905-29-6P 197905-30-9P 197905-31-0P 197905-32-1P 197905-33-2P 197905-34-3P 197905-35-4P 197905-36-5P 197905-37-6P 197905-38-7P 197905-39-8P 197905-40-1P 197905-41-2P 197905-44-5P 197905-45-6P 197905-46-7P 197905-47-8P 197905-48-9P 229491-04-3P 229491-05-4P 229491-07-6P			

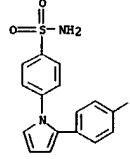
## L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

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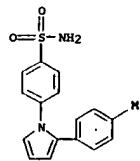
RL: BAC (Biological activity or effector, except adverse); SPN

(Synthetic  
 preparation); BIOL (Biological study); PREP (Preparation)  
 (prepns. of pyrrole derivs. as selective inhibitors for  
 cyclooxygenase-2)

RN 189501-09-5 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

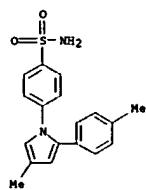


RN 197904-28-2 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-methylphenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

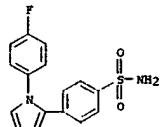


RN 197904-30-6 CAPLUS  
 CN Benzenesulfonamide, 4-(4-methyl-2-(4-methylphenyl)-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

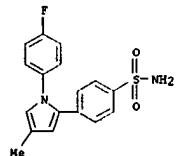
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



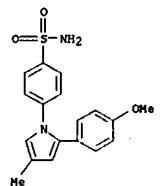
RN 197904-31-7 CAPLUS  
 CN Benzenesulfonamide, 4-(1-(4-fluorophenyl)-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)



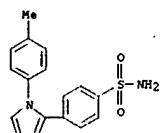
RN 197904-32-8 CAPLUS  
 CN Benzenesulfonamide, 4-(1-(4-fluorophenyl)-4-methyl-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)



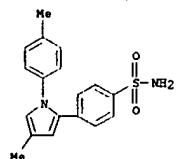
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-74-8 CAPLUS  
 CN Benzenesulfonamide, 4-(1-(4-methylphenyl)-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)



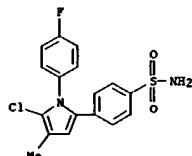
RN 197904-75-9 CAPLUS  
 CN Benzenesulfonamide, 4-[4-methyl-1-(4-methylphenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



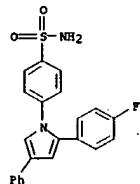
RN 197904-76-0 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  

RN 197904-52-2 CAPLUS  
 CN Benzenesulfonamide,  
 4-[5-chloro-1-(4-fluorophenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

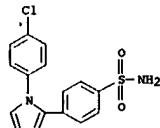


RN 197904-68-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-4-phenyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

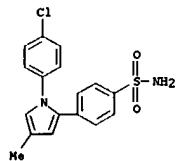


RN 197904-69-1 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

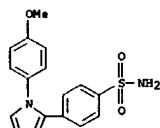
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-77-1 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

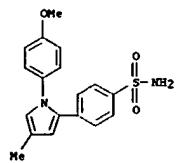


RN 197904-78-2 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

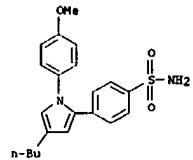


RN 197904-79-3 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

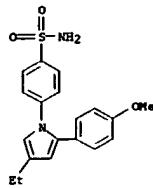


RN 197904-80-6 CAPLUS  
CN Benzenesulfonamide, 4-[4-butyl-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

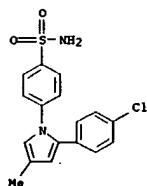


RN 197904-81-7 CAPLUS  
CN Benzenesulfonamide, 4-[4-ethyl-2-(4-methoxyphenyl)-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

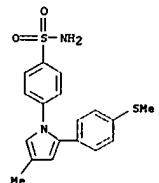


RN 197904-82-8 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-chlorophenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)



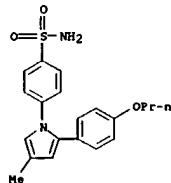
RN 197904-83-9 CAPLUS  
CN Benzenesulfonamide,  
4-[4-methyl-2-(4-(methylthio)phenyl)-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

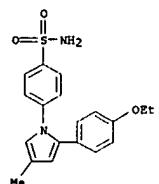


RN 197904-84-0 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

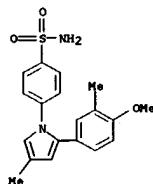
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-86-2 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(4-methoxy-3-methylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

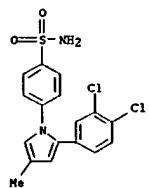


RN 197904-85-1 CAPLUS  
CN Benzenesulfonamide, 4-[4-methyl-2-(4-propoxyphe nyl)-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

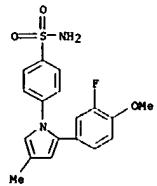


RN 197904-87-3 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(3,4-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

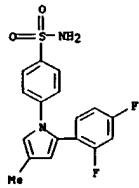


RN 197904-88-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3,4-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

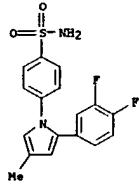


RN 197904-89-5 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(2,4-difluorophenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

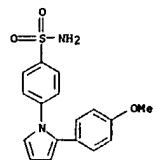


RN 197904-91-9 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3,4-difluorophenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

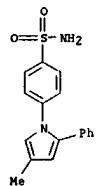


RN 197904-93-1 CAPLUS  
 CN Benzenesulfonamide, 4-(2-(4-methoxyphenyl)-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

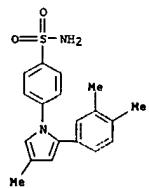
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-94-2 CAPLUS  
 CN Benzenesulfonamide, 4-(4-methyl-2-phenyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

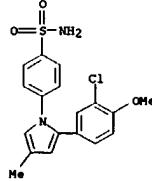


RN 197904-95-3 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

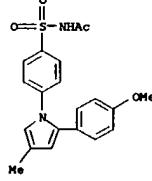


L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197904-96-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3-chloro-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

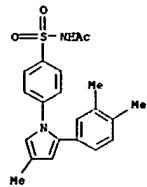


RN 197904-99-7 CAPLUS  
 CN Acetamide, N-[4-(2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

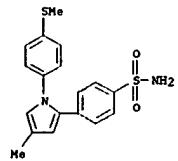


RN 197905-00-3 CAPLUS  
 CN Acetamide, N-[4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

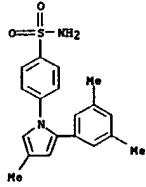


RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-1-(4-(methylthio)phenyl)-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)

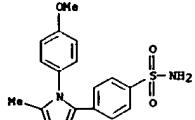


RN 197905-05-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3,5-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

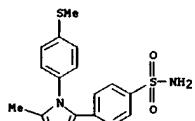
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



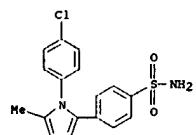
RN 197905-07-0 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-5-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



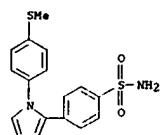
RN 197905-08-1 CAPLUS  
 CN Benzenesulfonamide,  
 4-(5-methyl-1-(4-(methylthio)phenyl)-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)



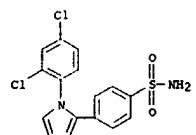
RN 197905-09-2 CAPLUS

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-5-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

RN 197905-10-5 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-(methylthio)phenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

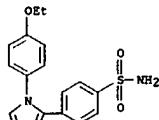


RN 197905-11-6 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(2,4-dichlorophenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

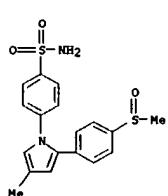


RN 197905-12-7 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-ethoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

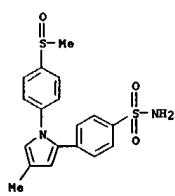
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-13-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-[1-(4-methyl-1-(4-(methylsulfinyl)phenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

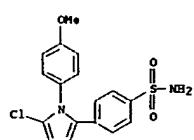


RN 197905-14-9 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-1-(4-(methylsulfinyl)phenyl)-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)

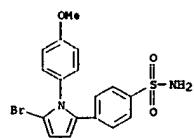


RN 197905-15-0 CAPLUS  
 CN Benzenesulfonamide, 4-[5-chloro-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI)

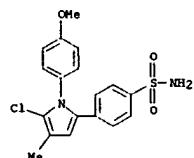
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(CA INDEX NAME)



RN 197905-16-1 CAPLUS  
CN Benzenesulfonamide, 4-[5-bromo-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

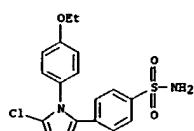


RN 197905-17-2 CAPLUS  
CN Benzenesulfonamide,  
4-[5-chloro-1-(4-methoxyphenyl)-1H-pyrrol-2-  
yl]- (9CI) (CA INDEX NAME)

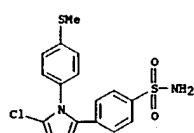


RN 197905-18-3 CAPLUS

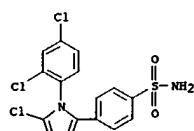
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
CN Benzenesulfonamide, 4-[5-chloro-1-(4-ethoxyphenyl)-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)



RN 197905-20-7 CAPLUS  
CN Benzenesulfonamide,  
4-[5-chloro-1-(4-(methylthio)phenyl)-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

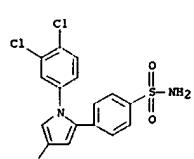


RN 197905-21-8 CAPLUS  
CN Benzenesulfonamide,  
4-[5-chloro-1-(2,4-dichlorophenyl)-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

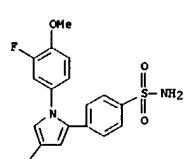


RN 197905-23-0 CAPLUS

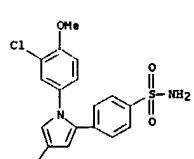
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
CN Benzenesulfonamide,  
4-[1-(3,4-dichlorophenyl)-4-methyl-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)



RN 197905-26-3 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(3-fluoro-4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
yl]- (9CI) (CA INDEX NAME)

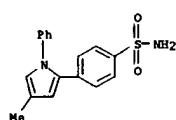


RN 197905-27-4 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(3-chloro-4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
yl]- (9CI) (CA INDEX NAME)

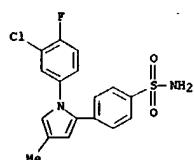


L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-28-5 CAPLUS  
CN Benzenesulfonamide, 4-(4-methyl-1-phenyl-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

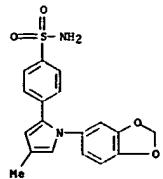


RN 197905-29-6 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(3-chloro-4-fluorophenyl)-4-methyl-1H-pyrrol-2-  
yl]- (9CI) (CA INDEX NAME)

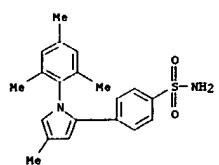


RN 197905-30-9 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(1,3-benzodioxol-5-yl)-4-methyl-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

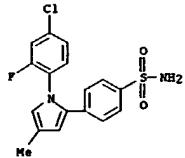


RN 197905-31-0 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-1-(2,4,6-trimethylphenyl)-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)

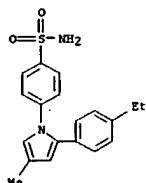


RN 197905-32-1 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-chloro-2-fluorophenyl)-4-methyl-1H-pyrrol-2-  
 yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

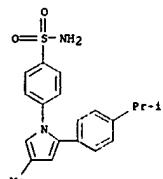


RN 197905-33-2 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

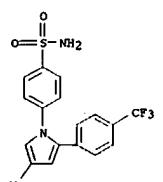


RN 197905-34-3 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-2-(4-(1-methylethyl)phenyl)-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

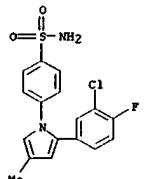


RN 197905-35-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-2-[4-(trifluoromethyl)phenyl]-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

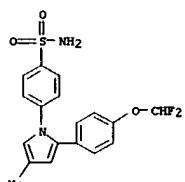


RN 197905-36-5 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3-chloro-4-fluorophenyl)-4-methyl-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

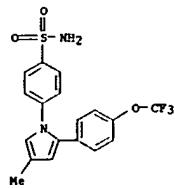


RN 197905-37-6 CAPLUS  
 CN Benzenesulfonamide,  
 4-[2-(4-difluoromethoxyphenyl)-4-methyl-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

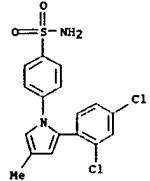


RN 197905-38-7 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-2-(4-(trifluoromethoxy)phenyl)-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

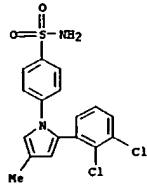


RN 197905-39-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(2,4-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

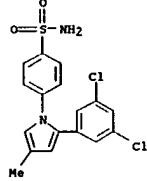


RN 197905-40-1 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(2,3-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

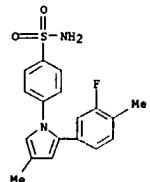


RN 197905-41-2 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3,5-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

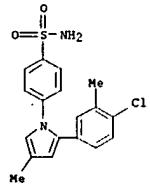


RN 197905-44-5 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3-fluoro-4-methylphenyl)-4-methyl-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

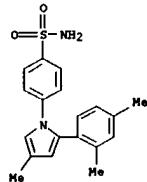


RN 197905-45-6 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(4-chloro-3-methylphenyl)-4-methyl-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

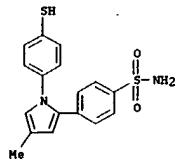


RN 197905-46-7 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(2,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

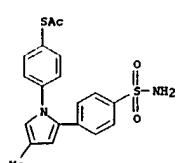
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-47-8 CAPLUS  
 CN Benzenesulfonamide, 4-(1-(4-mercaptophenyl)-4-methyl-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)

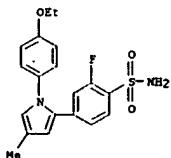


RN 197905-48-9 CAPLUS  
 CN Ethanethioic acid,  
 S-[4-(2-(4-aminosulfonyl)phenyl)-4-methyl-1H-pyrrol-1-  
 yl]phenyl ester (9CI) (CA INDEX NAME)

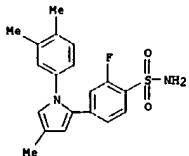


RN 229491-84-3 CAPLUS  
 CN Benzenesulfonamide, 4-(1-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-2-yl)-2-

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
fluoro- (9CI) (CA INDEX NAME)

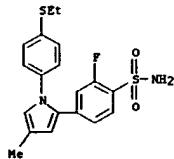


RN 229491-85-4 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-2-yl]-2-  
fluoro- (9CI) (CA INDEX NAME)

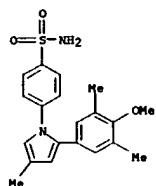


RN 229491-87-6 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(4-(ethylthio)phenyl)-4-methyl-1H-pyrrol-2-yl]-2-  
fluoro- (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

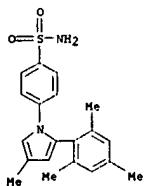


RN 229491-92-3 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(4-methoxy-3,5-dimethylphenyl)-4-methyl-1H-pyrrol-  
1-yl]- (9CI) (CA INDEX NAME)

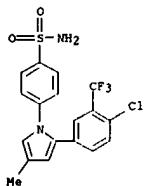


RN 229491-93-4 CAPLUS  
CN Benzenesulfonamide,  
4-[4-methyl-2-(2,4,6-trimethylphenyl)-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

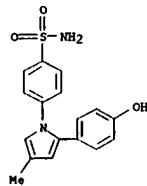


RN 229491-94-5 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(4-chloro-3-(trifluoromethyl)phenyl)-4-methyl-1H-  
pyrrol-1-yl]- (9CI) (CA INDEX NAME)



RN 229491-96-7 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-hydroxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

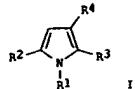
L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



L9 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1998:402414 CAPLUS  
 DOCUMENT NUMBER: 129:81660  
 TITLE: Preparation of substituted pyrroles for the treatment of inflammation  
 INVENTOR(S): Khanna, Ish K.; Weier, Richard M.; Yu, Yi G.D. Searle & Co., USA; Khanna, Ish K.; Weier, Richard  
 SOURCE: M.; Yu, Yi PCT Int. Appl., 99 pp.  
 CODEN: PIIXDD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

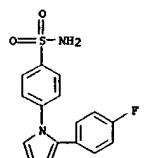
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9825896	A1	19980618	WO 1997-US22488	19971209
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GR, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9853776	A1	19980703	AU 1998-53776	19971209
US 5935950	A	19990810	US 1997-987356	19971209
EP 946507	A1	19991006	EP 1997-950891	19971209
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT,				
PRIORITY APPLN. INFO.:		US 1996-32680	19961210	
OTHER SOURCE(S):		MAPAT 129:81660	WO 1997-US22488	19971209
GI				

L9 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



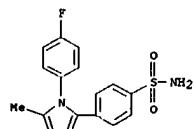
AB The title compds. [I; R1, R2 = (un)substituted aryl, cycloalkyl, cycloalkenyl, heterocycl]; R3 = H, halo, Me, alkoxycarbonylalkyl; R4 = H, halo, alkyl, etc.], useful in treating inflammation, arthritis, pain and fever, were prep. Thus, reaction of 1-(4-methylsulfonylphenyl)-1,4-pentanediones (prep. described) with 4-fluoroniline in the presence of p-TsOH in PhMe afforded 79% I [R1 = 4-FC6H4; R2 = 4-(MeSO2)C6H4; R3 = Me; R4 = H] which showed IC50 of < 0.1 μM against COX-2 and IC50 of > 100 μM against COX-1. Compds. of particular interest are pyrroles I, wherein at least one of R1 and R2 is Ph substituted with methylsulfonyl or aminosulfonyl.

IT 189501-09-5P 209167-35-1P  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RN 189501-09-5 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)



RN 209167-35-1 CAPLUS

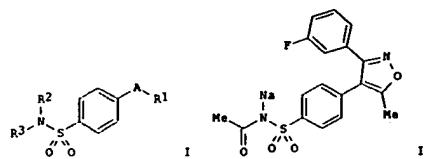
L9 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-5-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



L9 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997:696748 CAPLUS  
 DOCUMENT NUMBER: 127:35861  
 TITLE: Substituted benzenesulfonamide derivatives as prodrugs of COX-2 inhibitors  
 INVENTOR(S): Talley, John J.; Malecha, James W.; Bertenshaw, Stephen; Graneto, Matthew J.; Carter, Jeffery S.; Li, Jinglin; Nagarajan, Srinivasan; Brown, David L.; et al.  
 PATENT ASSIGNEE(S): G.D. Searle & Co., USA; Talley, John J.; Malecha, James W.; Bertenshaw, Stephen; Graneto, Matthew J.; Carter, Jeffery S.; Li, Jinglin  
 SOURCE: PCT Int. Appl., 184 pp.  
 CODEN: PIIXDD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9738986	A1	19971023	WO 1997-US5497	19970411
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2249009	AA	19971023	CA 1997-2249009	19970411
AU 9727227	A1	19971107	AU 1997-27227	19970411
EP 992791	A1	19990127	EP 1997-921092	19970411
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1216043	A	19990505	CN 1997-193747	19970411
BR 9708574	A	19990803	BR 1997-8574	19970411
JP 2000509029	T2	20000718	JP 1997-537139	19970411
US 5932598	A	19990803	US 1998-5610	19980112
NO 9804727	A	19981214	NO 1998-4727	19981009
LT 4586	B	19991227	LT 1998-142	19981009
LV 12239	B	19990820	LV 1998-215	19981012
PRIORITY APPLN. INFO.:			US 1996-631514	19960412
OTHER SOURCE(S):			WO 1997-US5497	19970411
GI				

L9 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

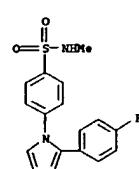


**AB** Prodrugs of COX-2 inhibitors, of formula I or their pharmaceutically acceptable salts, are useful in treating inflammation and inflammation-related disorders [wherein A = (un)substituted partially unsatd. heterocyclyl, heteroaryl, cycloalkenyl or aryl; R1 = (un)substituted heterocyclyl, cycloalkyl, cycloalkenyl, or aryl; R2 = H, alkoxycarbonylalkyl; R3 = alkyl, carbonylalkyl, acyl, alkoxy carbonyl, heteroacyl carbonyl, alkoxy carbonylalkyl carbonyl, alkoxy carbonyl carbonyl, amino acid residue, or alkyl carbonyl amino alkyl carbonyl; provided A .noteq. tetrazolium or pyridinium, and A .noteq. indanone when R3 = alkyl or carbonylalkyl]. Preps. of over 80 compds. are described. For instance, 4-[5-methyl-3-(3-fluorophenyl)isoxazol-4-yl]benzenesulfonamide undergoes N-acetylation with Ac2O, Et3N, and DMAP in THF (81%), and saponification with NaOH in EtOH (97%), to give title salt II. At 30 mg/kg orally in the rat paw edema test, II gave 65% inhibition. Analgesic activity in rats, and a metab. assay with S9 liver fractions, are also described for 3 selected compds.

**IT** 189501-10-8  
**RI:** BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (prepn. of substituted benzenesulfonamide derivs. as prodrugs of COX-2 inhibitors)

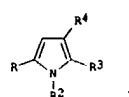
**RN** 189501-10-8 CAPLUS  
**CN** Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]-N-methyl- (9CI)

L9 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued) (CA INDEX NAME)



L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997-678926 CAPLUS  
 DOCUMENT NUMBER: 127:331392  
 TITLE: Preparation of 1,2-diphenylpyrroles as cyclooxygenase-2 inhibitors  
 INVENTOR(S): Kimura, Tomio; Noguchi, Yasuo; Nakao, Akira;  
 Suzuki, Keisuke; Ushiyama, Shigeru; Kawara, Akihiro;  
 Miyamoto, Masaaki  
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 140 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

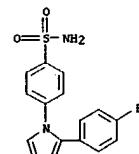
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 799823	A	19971008	EP 1997-302245	19970402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,				
PT,	IE, FI			
US 590858	A	19990601	US 1997-824775	19970326
AU 9716653	A1	19971009	AU 1997-16653	19970402
AU 710380	B2	19990916		
CA 2201812	AA	19971005	CA 1997-2201812	19970404
NO 9701564	A	19971006	NO 1997-1564	19970404
JP 09323971	A2	19971216	JP 1997-86889	19970404
RU 2125044	C1	19990120	RU 1997-105191	19970404
CU 1168372	A	19971224	CN 1997-113404	19970405
JP 1996-83562				
19960405				
PRIORITY APPLN. INFO.: MARPAT 127:331392				
OTHER SOURCE(S): GI				



**AB** Title compds. [e.g., I; R = ZSO2R1; R1 = alkyl or NR2; R2 = H, alkanoyl, alkoxy carbonyl, etc.; R2 = (un)substituted Ph; R3 = H, halo, (un)substituted alkyl; R4 = H, (un)substituted alkyl, aryl(alkyl), etc.; Z = (un)substituted 1,4-phenylene] were prepd. Thus, 4-(MeO)C6H4NH2 was condensed with 4-(OHC)C6H4SO2Me and the product treated with Me3SiCH2ZnCl2

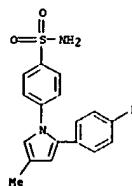
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 to give 4-(MeO)C6H4NHCH(CN)C6H4(SO2Me)-4 which was cyclocondensed with CH2:CHCHO to give I [R = C6H4(SO2Me)-4, R2 = C6H4(OH)-4, R3 = R4 = H]. Data for biol. activity of title compds. were given.  
**IT** 189501-09-5P 197904-27-1P 197904-32-6P  
 197904-52-2P 197904-68-0P 197904-69-1P  
 197904-74-8P 197904-75-9P 197904-76-0P  
 197904-77-1P 197904-78-2P 197904-79-3P  
 197904-80-6P 197904-81-7P 197904-82-8P  
 197904-83-9P 197904-84-0P 197904-85-1P  
 197904-86-2P 197904-87-3P 197904-88-4P  
 197904-89-5P 197904-91-6P 197904-92-0P  
 197904-93-1P 197904-94-2P 197904-95-3P  
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 197905-00-3P 197905-01-4P 197905-02-5P  
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 197905-26-3P 197905-27-4P 197905-28-5P  
 197905-29-6P 197905-30-9P 197905-31-0P  
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 197905-39-7P 197905-39-8P 197905-40-1P  
 197905-41-2P 197905-42-3P 197905-43-4P  
 197905-44-5P 197905-45-6P 197905-46-7P  
 197905-47-8P 197905-48-9P  
**RI:** BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (prepn. of 1,2-diphenylpyrroles as cyclooxygenase-2 inhibitors)

**RN** 189501-09-5 CAPLUS  
**CN** Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

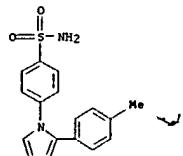


**RN** 197904-27-1 CAPLUS  
**CN** Benzenesulfonamide, 4-[2-(4-fluorophenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(CA INDEX NAME)

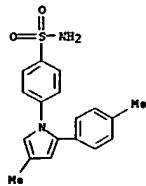


RN 197904-28-2 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-methylphenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

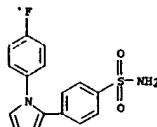


RN 197904-30-6 CAPLUS  
CN Benzenesulfonamide, 4-[4-methyl-2-(4-methylphenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

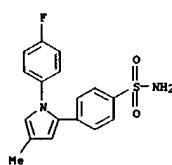
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



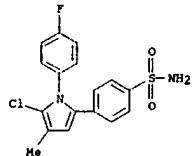
RN 197904-31-7 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



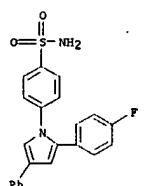
RN 197904-32-8 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
RN 197904-52-2 CAPLUS  
CN Benzenesulfonamide,  
4-[5-chloro-1-(4-fluorophenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

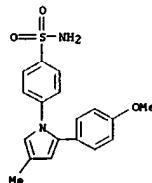


RN 197904-68-0 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-4-phenyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

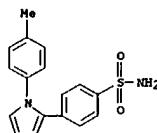


RN 197904-69-1 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

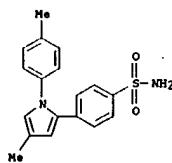
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-74-8 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-methylphenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

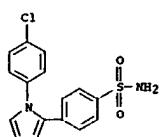


RN 197904-75-9 CAPLUS  
CN Benzenesulfonamide, 4-[4-methyl-1-(4-methylphenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

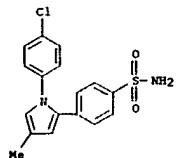


RN 197904-76-0 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

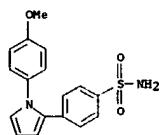
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-77-1 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-4-methyl-1H-pyrrol-2-yl]-  
(9CI)  
(CA INDEX NAME)

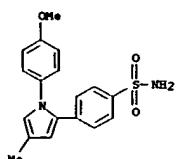


RN 197904-78-2 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
(9CI)  
(CA INDEX NAME)

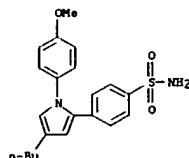


RN 197904-79-3 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-4-methyl-1H-pyrrol-2-yl]-  
(9CI)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

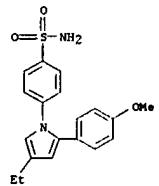


RN 197904-80-6 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
(9CI)  
(CA INDEX NAME)

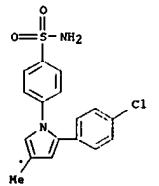


RN 197904-81-7 CAPLUS  
CN Benzenesulfonamide, 4-[1-(4-ethyl-2-(4-methoxyphenyl)-1H-pyrrol-1-yl)-  
(9CI)  
(CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

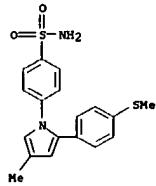


RN 197904-82-8 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-chlorophenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI)  
(CA INDEX NAME)

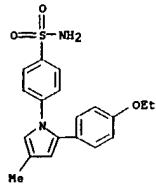


RN 197904-83-9 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(4-methyl-2-(4-(methylthio)phenyl)-1H-pyrrol-1-yl)-  
(9CI)  
(CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

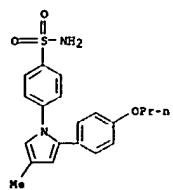


RN 197904-84-0 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI)  
(CA INDEX NAME)

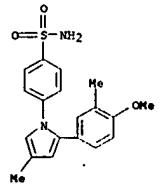


RN 197904-85-1 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-methyl-2-(4-propoxyphe-nyl)-1H-pyrrol-1-yl)-  
(9CI)  
(CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

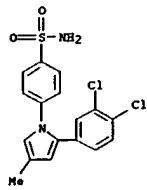


RN 197904-86-2 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(4-methoxy-3-methylphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

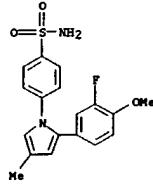


RN 197904-87-3 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,4-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

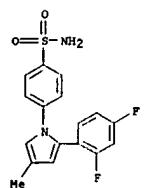


RN 197904-88-4 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(3-fluoro-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

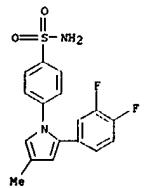


RN 197904-89-5 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(2,4-difluorophenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

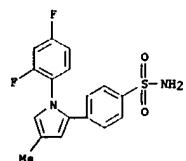
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-91-9 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,4-difluorophenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

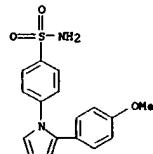


RN 197904-92-0 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(2,4-difluorophenyl)-4-methyl-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)

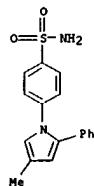


L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197904-93-1 CAPLUS  
CN Benzenesulfonamide, 4-(2-(4-methoxyphenyl)-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

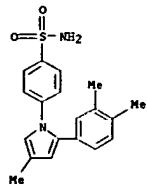


RN 197904-94-2 CAPLUS  
CN Benzenesulfonamide, 4-(4-methyl-2-phenyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

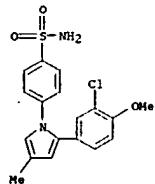


RN 197904-95-3 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

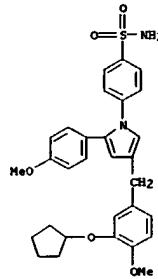


RN 197904-96-4 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3-chloro-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

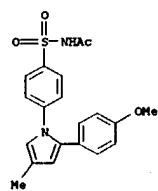


RN 197904-98-6 CAPLUS  
CN Benzenesulfonamide,  
4-(4-((3-(cyclopentoxy)-4-methoxyphenyl)methyl)-2-(4-methoxyphenyl)-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

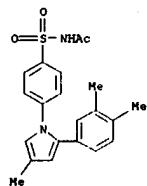


RN 197904-99-7 CAPLUS  
CN Acetamide, N-[4-(2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl)phenyl]sulfonyl- (9CI) (CA INDEX NAME)

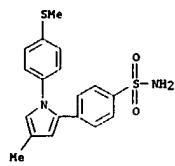


RN 197905-00-3 CAPLUS  
CN Acetamide, N-[4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)phenyl]sulfonyl- (9CI) (CA INDEX NAME)

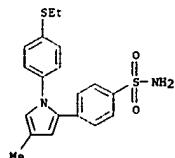
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



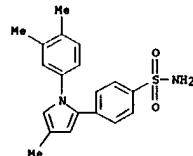
RN 197905-01-4 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(4-(methylthio)phenyl)-4-methyl-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)



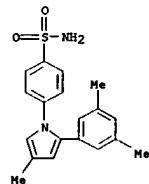
RN 197905-02-5 CAPLUS  
CN Benzenesulfonamide,  
4-(1-[(4-(ethylthio)phenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



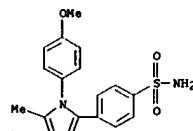
RN 197905-03-6 CAPLUS

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
CN Benzenesulfonamide,  
4-(1-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)

RN 197905-05-8 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

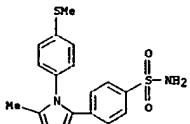


RN 197905-07-0 CAPLUS  
CN Benzenesulfonamide, 4-(1-(4-methoxyphenyl)-5-methyl-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)

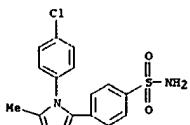


L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

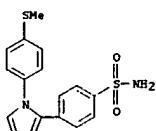
RN 197905-08-1 CAPLUS  
 CN Benzenesulfonamide,  
 4-(5-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)



RN 197905-09-2 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-5-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

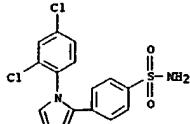


RN 197905-10-5 CAPLUS  
 CN Benzenesulfonamide, 4-[1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

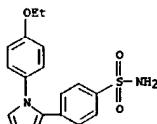


L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-11-6 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(2,4-dichlorophenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



RN 197905-12-7 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-ethoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

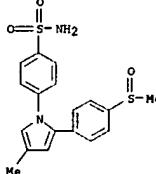


RN 197905-13-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-2-[4-(methylsulfinyl)phenyl]-1H-pyrrol-1-  
 yl]- (9CI) (CA INDEX NAME)

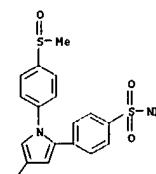


L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

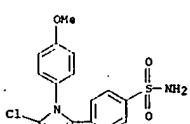
RN 197905-14-9 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-1-[4-(methylsulfinyl)phenyl]-1H-pyrrol-2-  
 yl]- (9CI) (CA INDEX NAME)



RN 197905-15-0 CAPLUS  
 CN Benzenesulfonamide, 4-[5-chloro-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

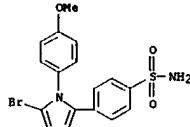


RN 197905-16-1 CAPLUS  
 CN Benzenesulfonamide, 4-[5-chloro-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

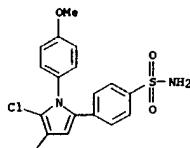


RN 197905-16-1 CAPLUS

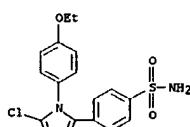
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-[5-bromo-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



RN 197905-17-2 CAPLUS  
 CN Benzenesulfonamide,  
 4-[5-chloro-1-(4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
 yl]- (9CI) (CA INDEX NAME)

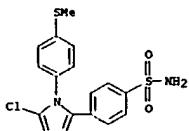


RN 197905-18-3 CAPLUS  
 CN Benzenesulfonamide, 4-[5-chloro-1-(4-ethoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

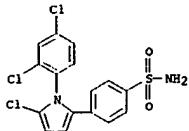


RN 197905-20-7 CAPLUS  
 CN Benzenesulfonamide,  
 4-[5-chloro-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-

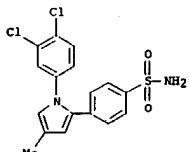
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(9CI) (CA INDEX NAME)



RN 197905-21-8 CAPLUS  
CN Benzenesulfonamide,  
4-(5-chloro-1-(2,4-dichlorophenyl)-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

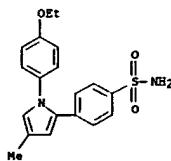


RN 197905-23-0 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(3,4-dichlorophenyl)-4-methyl-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

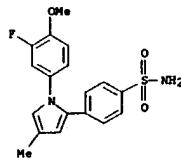


RN 197905-24-1 CAPLUS

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
Benzenesulfonamide, 4-[1-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

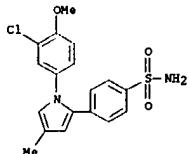


RN 197905-26-3 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(3-fluoro-4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
yl]- (9CI) (CA INDEX NAME)

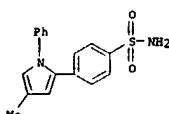


RN 197905-27-4 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(3-chloro-4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
yl]- (9CI) (CA INDEX NAME)

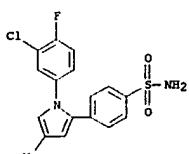
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-28-5 CAPLUS  
CN Benzenesulfonamide, 4-(4-methyl-1-phenyl-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)

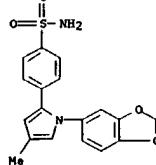


RN 197905-29-6 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(3-chloro-4-fluorophenyl)-4-methyl-1H-pyrrol-2-  
yl)- (9CI) (CA INDEX NAME)

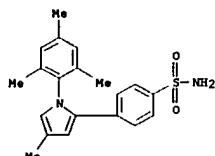


RN 197905-30-9 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(1,3-benzodioxol-5-yl)-4-methyl-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

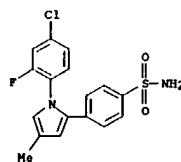
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-31-0 CAPLUS  
CN Benzenesulfonamide,  
4-[4-methyl-1-(2,4,6-trimethylphenyl)-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

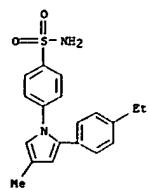


RN 197905-32-1 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(4-chloro-2-fluorophenyl)-4-methyl-1H-pyrrol-2-  
yl]- (9CI) (CA INDEX NAME)

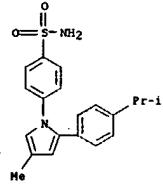


RN 197905-33-2 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-ethylphenyl)-4-methyl-1H-pyrrol-2-  
yl]- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(CA INDEX NAME)

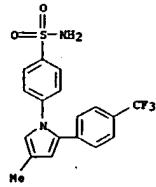


RN 197905-34-3 CAPLUS  
CN Benzenesulfonamide,  
4-(4-methyl-2-(4-(1-methylethyl)phenyl)-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

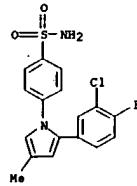


RN 197905-35-4 CAPLUS  
CN Benzenesulfonamide,  
4-(4-methyl-2-(4-(trifluoromethyl)phenyl)-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(CA INDEX NAME)

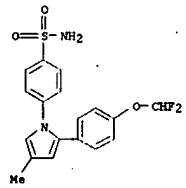


RN 197905-36-5 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(3-chloro-4-fluorophenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

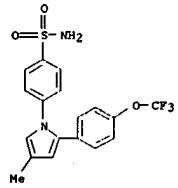


RN 197905-37-6 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(4-(difluoromethoxy)phenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

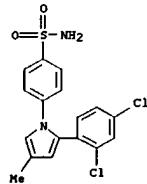


RN 197905-38-7 CAPLUS  
CN Benzenesulfonamide,  
4-(4-methyl-2-(4-(trifluoromethoxy)phenyl)-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

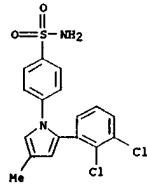


RN 197905-39-8 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(4-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

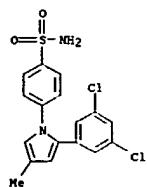


RN 197905-40-1 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(2,3-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

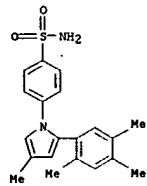


RN 197905-41-2 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(3,5-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

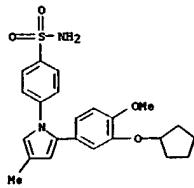


RN 197905-42-3 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-2-(2,4,5-trimethylphenyl)-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

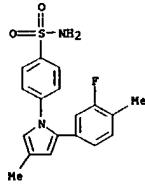


RN 197905-43-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3-(cyclopentyloxy)-4-methoxyphenyl)-4-methyl-1H-  
 pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

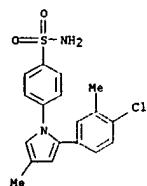


RN 197905-44-5 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3-fluoro-4-methylphenyl)-4-methyl-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

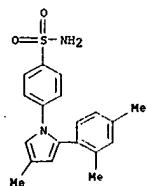


RN 197905-45-6 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(4-chloro-3-methylphenyl)-4-methyl-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

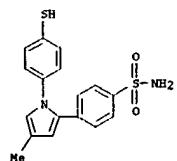
L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-46-7 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(2,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

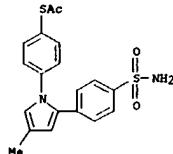


RN 197905-47-8 CAPLUS  
 CN Benzenesulfonamide, 4-(1-(4-mercaptophenyl)-4-methyl-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)

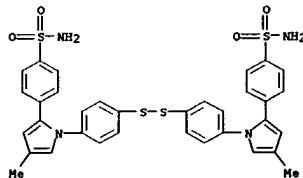


L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

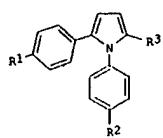
RN 197905-48-9 CAPLUS  
 CN Ethanethioic acid,  
 S-(4-(2-(4-(aminosulfonyl)phenyl)-4-methyl-1H-pyrrol-1-  
 yl)phenyl) ester (9CI) (CA INDEX NAME)



IT 197906-24-4P  
 RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation)  
 (prepn. of 1,2-diphenylpyrroles as cyclooxygenase-2 inhibitors)  
 RN 197906-24-4 CAPLUS  
 CN Benzenesulfonamide,  
 4,4'-(dithiobis[4,1-phenylene(4-methyl-1H-pyrrole-1,2-  
 diyl)])bis- (9CI) (CA INDEX NAME)

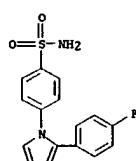


L9 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997:J09989 CAPLUS  
 DOCUMENT NUMBER: 126:338393  
 TITLE: 1,2-Diarylpyrroles as potent and selective  
 inhibitors  
 of cyclooxygenase-2  
 AUTHOR(S): Khanna, Ish K.; Weier, Richard M.; Yu, Yi;  
 Collins, Karen;  
 Isakson, Peter C.  
 CORPORATE SOURCE: Discovery Medicinal Chemistry and Inflammatory  
 Disease Research, Searle Research and Development,  
 Skokie, IL,  
 SOURCE: 60077, USA  
 J. Med. Chem. (1997), 40(11), 1619-1633  
 CODEN: JNCHEM ISSN: 0022-2623  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English



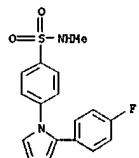
AB Series of 1,2-diarylpyrroles has been synthesized and found to contain very potent and selective inhibitors of the human cyclooxygenase-2 (COX-2) enzyme. The paper describes short and practical syntheses of the target mols. utilizing the Paal-Knorr reaction. Electrophilic substitution on 1 proceeds in a regioselective fashion, and the method was used to generate a no. of tetrasubstituted pyrroles. Detailed SAR on the series has been studied by modifications of the aryl rings and the substituents in the pyrrole ring. Diarylpyrrole I (R1 = MeO<sub>2</sub>S, R2 = F, R3 = Me) is a very

L9 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 potent (COX-2, IC<sub>50</sub> = 60 nm) and selective (COX-1/COX-2 >1700)  
 inhibitor whereas the isomeric I (R1 = F, R2 = MeO<sub>2</sub>S, R3 = Me) is completely inactive against COX-2. Modifications of the substituents on the fluorophenyl ring in I yields very potent inhibitors of COX-2 (IC<sub>50</sub> = 40-80 nm) with excellent selectivity (1200 to >2500) vs. COX-1. An analog contg. a sulfonamide group is an excellent inhibitor of COX-2 with an IC<sub>50</sub> of 14 nm. Tetrasubstituted pyrroles contg. groups such as COCF<sub>3</sub>, SO<sub>2</sub>CF<sub>3</sub>, or CH<sub>2</sub>OAr at position 3 in the pyrrole ring give excellent inhibitors (COX-2, IC<sub>50</sub> = 30-120 nm). In vivo testing in the carrageenan-induced paw edema model in the rat establishes that the 1,2-diarylpyrroles are orally active antiinflammatory agents. Compd. I (R1 = F, R2 = MeO<sub>2</sub>S, R3 = H) is the most potent inhibitor of edema with an ED<sub>50</sub> of 4.7 mpk. IT 189501-09-5 189501-10-8 PRP RL: BAC (Biological activity or effector, except adverse); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) [synthesis and structure of 1,2-diarylpyrroles as cyclooxygenase-2 inhibitors and orally active antiinflammatory agents] RN 189501-09-5 CAPLUS CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)



RN 189501-10-8 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]-N-methyl- (9CI) (CA INDEX NAME)

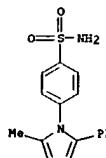
L9 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



L9 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1970:100495 CAPLUS  
 DOCUMENT NUMBER: 72:100495  
 TITLE: 1-Phenylpyrroles  
 INVENTOR(S): Pons, Andre L.; Robba, Max F.; Marcy, Rene H.; Duval, Denise J. C.  
 PATENT ASSIGNEE(S): Innothera  
 SOURCE: Ger. Offen., 94 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1938904	A	19700205	DE 1969-1938904	19690731
FR 7649	M	19700202	FR 1968-161664	19680802
FR 2054474	A6	19710423	FR 1969-23303	19690709
FR 2054474	B2	19730608		
GB 1263940	A	19720216	GB 1969-1263940	19690731
			FR 1968-161664	19680802
			FR 1969-23303	19690709

GI For diagram(s), see printed CA Issue.  
 AB 1-phenylpyrroles (I) are prep'd. and investigated as pain killers and inflammation inhibitors for the treatment of arthritis, lumbago, and sciatica. Thus, 33 g .gamma.-oxovalerophenone and 25 g m-aminobenzoic acid was heated at 195.degree. to yield 95% I (R = m-CO<sub>2</sub>H, R1 = Me, R2 = Ph), m. 197.degree. (EtOH), LD<sub>50</sub> (mg/kg in mice) i.v. 113, i.p. 430, and digestive 1850. Ninety I were prep'd. and the LD<sub>50</sub> dstd. for 20. IT 26165-71-9 PRP: SPN (Synthetic preparation); PREP (Preparation) (prepn. of) RN 26165-71-9 CAPLUS CN Benzenesulfonamide, p-(2-methyl-5-phenylpyrrol-1-yl)- (8CI) (CA INDEX NAME)



L9 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1969:68134 CAPLUS  
 DOCUMENT NUMBER: 70:68134  
 TITLE: Pyrrolipropionic acid  
 INVENTOR(S): Chinn, Leland J.  
 PATENT ASSIGNEE(S): Searel, G. D., and Co.  
 SOURCE: U.S., 2 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

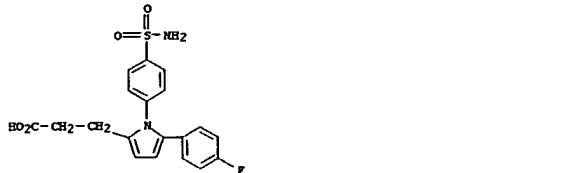
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3427305	A	19690211	US 1966-591120	19661101

AB 3-[1-(R-Substituted)-2-(R1-substituted)-5-pyrrolyl]propionic acids (I), where R = p-sulfamoylphenyl or -benzyl and R1 = substituted phenyl, were prep'd. by condensing an appropriate oxo acid with an appropriate benzenesulfonamide. Yields were not stated. Thus, a mixt. of p-FC6H4CO(CH2)2CO2H 300, p-H2NCH4SO2NH2 200, p-MeC6H4SO3H and PNa 8700 parts is refluxed 24 hrs. with removal of H2O and worked up to give I (R = p-H2NO2-SC6H4, R1 = p-FC6H4), m. 229.5-32.5.degree. (EtOAc). Similarly prep'd. were the following I (R, R1, and m.p. given): p-H2NO2-SC6H4CH2, p-FC6H4, 169.5-71.5.degree. (EtOAc-Et2O); p-H2NO2-SC6H4, p-C1C6H4, 256.5-9.5.degree. (Me2CO-EtOAc); p-H2NO2SC6-H4CH2, m-BrC6H4, - and p-H2NO2SC6H4, p-MeOC6H4, 176-80.5.degree. (EtOAc-hexane). The compds. inhibit hemoglobin hydrolysis, and have antiinflammatory, antiedemic, and antibacterial properties.

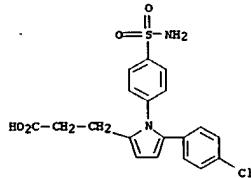
IT 21766-08-5P 21766-10-9P 21766-12-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)

RN 21766-08-5 CAPLUS  
 CN Pyrrole-2-propionic acid, 5-(p-fluorophenyl)-1-(p-sulfamoylphenyl)-(8CI)  
 (CA INDEX NAME)

L9 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

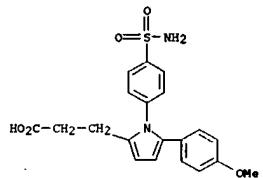


RN 21766-10-9 CAPLUS  
 CN Pyrrole-2-propionic acid, 5-(p-chlorophenyl)-1-(p-sulfamoylphenyl)-(8CI)  
 (CA INDEX NAME)



RN 21766-12-1 CAPLUS  
 CN Pyrrole-2-propionic acid, 5-(p-methoxyphenyl)-1-(p-sulfamoylphenyl)-(8CI)  
 (CA INDEX NAME)

L9 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



=> fil beil			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	63.82	241.49	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-8.82	-8.82	

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FILE LAST UPDATED: 6 MAR 2000

FILE COVERS 1779 TO 2000.

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 \*\*\* FILE CONTAINS 7,688,486 SUBSTANCES \*\*\*

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100.0% PROCESSED 9307 ITERATIONS 6 ANSWERS  
 SEARCH TIME: 00.00.22

L10 6 SEA SSS FUL L6

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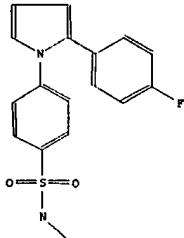
## L10 ANSWER 1 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI

## Preparation:

PRE  
 Start: BRN=7762567 1-(4-fluorophenyl)-3-(5,5-dimethyl-1,3-dioxan-2-yl)propanes, BRN=2366812 4-amino-N-methyl-benzenesulfonamide  
 Reag: p-TsOH  
 Time: 20 hour(s)  
 Yield: 40.00 %  
 Solv: toluene  
 Ambient Temperature  
 Reference(s):  
 1. Khanna, Ish K.; Weier, Richard M.; Yu, Yi; Collins, Paul W.; Miyashiro, Julie M.; et al., J.Med.Chem., 40 <1997> 11, 1619-1633, LA: EN, CODEN: JHCMAR

Beilstein Reg. No. (BRN): 7772559 Beilstein  
 Molecular Formula (MF): C17 H15 F N2 O2 S  
 Synonym (SY): 4<-2-(4-fluorophenyl)-1H-pyrol-1-yl>-N-methylbenzenesulfonamide

Beilstein Reference (SO): 6-20  
 Formula Weight (FW): 330.38  
 Lawson Number (LN): 24377, 16308; 2017



## Ring System Data:

Number of Rings (CNR): 3

## L10 ANSWER 1 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI (Continued)

Ring Systems (CNRs): 3  
 Diff. Ring Systems (CNDRS): 2  
 Ring Heteros (CNRH): 1  
 Acyclic Heteros (CNAH): 5

Beilstein Ring Index   Ring System Formula   BRIX (BRIX)	(RF)   Count
6.1.0-0-0-3.1   C6   2	
5.1.0-1.1-2.2   C4N   1	

Biological Function:  
 BF in vitro inhibition of the human cyclooxygenase-2 (COX-2) enzyme: IC50>100 .my.M and the human cyclooxygenase-1 (COX-1) enzyme: IC50>100 .my.M  
 Reference(s):  
 1. Khanna, Ish K.; Weier, Richard M.; Yu, Yi; Collins, Paul W.; Miyashiro, Julie M.; et al., J.Med.Chem., 40 <1997> 11, 1619-1633, LA: EN, CODEN: JHCMAR

## Field Availability:

Code	Name	Occur. (OCC)
MF	Molecular Formula	1
SY	Synonym	1
FW	Formula Weight	1
SO	Beilstein Citation	1
LN	Lawson Number	3
SF	Stereo Family	1
PRE	Preparation	1
CTCP1	Coupling Phenomena	1
MP	Melting Point	1
NMRA	NMR Absorption	1
IRM	Infrared Maximum	1
BF	Biological Function	1

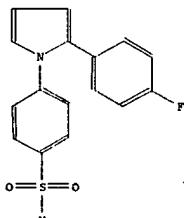
## L10 ANSWER 2 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI

## Preparation:

PRE  
 Start: BRN=5942101  
 3-(1,3-dioxolan-2-yl)-1-(4-fluorophenyl)propan-1-one, BRN=511852 4-amino-benzenesulfonamide  
 Reag: p-TsOH  
 Time: 20 hour(s)  
 Solv: toluene  
 Ambient Temperature  
 Reference(s):  
 1. Khanna, Ish K.; Weier, Richard M.; Yu, Yi; Collins, Paul W.; Miyashiro, Julie M.; et al., J.Med.Chem., 40 <1997> 11, 1619-1633, LA: EN, CODEN: JHCMAR

Beilstein Reg. No. (BRN): 7770298 Beilstein  
 Molecular Formula (MF): C16 H13 F N2 O2 S  
 Synonym (SY): 4<-2-(4-fluorophenyl)-1H-pyrol-1-yl>-N-methylbenzenesulfonamide

Beilstein Reference (SO): 6-20  
 Formula Weight (FW): 316.35  
 Lawson Number (LN): 24377, 16308



## Ring System Data:

Number of Rings (CNR): 3  
 Ring Systems (CNRs): 3  
 Diff. Ring Systems (CNDRS): 2  
 Ring Heteros (CNRH): 1  
 Acyclic Heteros (CNAH): 5

## L10 ANSWER 2 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI (Continued)

Beilstein Ring Index | Ring System Formula | BRIX (BRIX)

Beilstein Ring Index   Ring System Formula   BRIX (BRIX)	(RF)   Count
6.1.0-0-0-3.1   C6   2	
5.1.0-1.1-2.2   C4N   1	

Biological Function:  
 BF in vitro inhibition of the human cyclooxygenase-2 (COX-2) enzyme: IC50=0.014 .my.M and the human cyclooxygenase-1 (COX-1) enzyme: IC50=10.5 .my.M in vivo inhibition of carrageenan-induced edema in rats  
 Reference(s):  
 1. Khanna, Ish K.; Weier, Richard M.; Yu, Yi; Collins, Paul W.; Miyashiro, Julie M.; et al., J.Med.Chem., 40 <1997> 11, 1619-1633, LA: EN, CODEN: JHCMAR

## Field Availability:

Code	Name	Occur. (OCC)
MF	Molecular Formula	1
SY	Synonym	1
FW	Formula Weight	1
SO	Beilstein Citation	1
LN	Lawson Number	2
SF	Stereo Family	1
PRE	Preparation	1
CTCP1	Coupling Phenomena	1
MP	Melting Point	1
NMRA	NMR Absorption	1
IRM	Infrared Maximum	1
BF	Biological Function	1

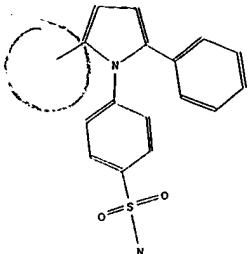
## L10 ANSWER 3 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI

## Preparation:

PRE

Reference(s):  
 1. Patent: Innothera, DE 1938904 1970  
*Chem. Abstr.*, 72, 100495  
 2. Patent: Innothera, DE 1938904 1969  
*Chem. Abstr.*, 72, 100495

Beilstein Reg. No. (BRN): 1292411 Beilstein  
 Molecular Formula (MF): C17 H16 N2 O2 S  
 Autonom Name (AUN): 4-(2-methyl-5-phenyl-pyrrol-1-yl)-  
 benzenesulfonamide  
 Beilstein Reference (SO): 5-20  
 CAS Reg. No. (RN): 26165-71-9  
 Beilstein Pref. RN (BPR): 26165-71-9  
 Formula Weight (FW): 312.39  
 Lawson Number (LN): 24386, 16308



## Ring System Data:

Number of Rings (CNR): 3  
 Ring Systems (CNRS): 3  
 Diff. Ring Systems (CNDRS): 2  
 Ring Heteros (CNRH): 1  
 Acyclic Heteros (CNAH): 4

## L10 ANSWER 3 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI (Continued)

Beilstein Ring Index   Ring System Formula   BRIX (BRIX)   (RF)   Count
5.1.0-1.1-2.2   C4N   1
6.1.0-0.0-3.1   C6   2

## Field Availability:

Code   Name	Occur. (OCC)
MF   Molecular Formula	1
AUN   Autonom Name	1
FW   Formula Weight	1
SO   Beilstein Citation	1
LN   Lawson Number	2
RN   CAS Registry Number	1
BPR   Beilstein Preferred RN	1
SF   Stereo Family	1
PRE   Preparation	1
MP   Melting Point	3

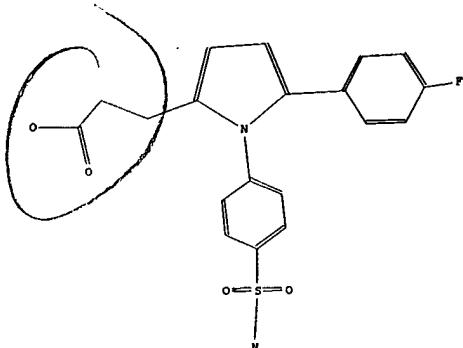
## L10 ANSWER 4 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI

## Preparation:

PRE

Reference(s):  
 1. Patent: Searle, G.D. and Co., US 3427305 1969  
*Chem. Abstr.*, 70, <1969>, 68134x  
 2. Patent: Searle, G.D. and Co., US 3427305 1969  
*Chem. Abstr.*, 70, <1969>, 68134x

Beilstein Reg. No. (BRN): 500639 Beilstein  
 Molecular Formula (MF): C19 H17 F N2 O4 S  
 Autonom Name (AUN): 3-cs-(4-fluoro-phenyl)-1-(4-sulfamoyl-phenyl)-1H-  
 pyrrol-2-yl-propionic acid  
 Beilstein Reference (SO): 5-22  
 CAS Reg. No.: 21766-08-5  
 Beilstein Pref. RN (BPR): 21766-08-5  
 Formula Weight (FW): 388.41  
 Lawson Number (LN): 26414, 16308



## Ring System Data:

Number of Rings (CNR): 3  
 Ring Systems (CNRS): 3  
 Diff. Ring Systems (CNDRS): 2  
 Ring Heteros (CNRH): 1

## L10 ANSWER 4 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI (Continued)

Beilstein Ring Index   Ring System Formula   BRIX (BRIX)   (RF)   Count
5.1.0-1.1-2.2   C4N   1
6.1.0-0.0-3.1   C6   2

## Field Availability:

Code   Name	Occur. (OCC)
MF   Molecular Formula	1
AUN   Autonom Name	1
FW   Formula Weight	1
SO   Beilstein Citation	1
LN   Lawson Number	2
RN   CAS Registry Number	1
BPR   Beilstein Preferred RN	1
SF   Stereo Family	1
PRE   Preparation	1
MP   Melting Point	2

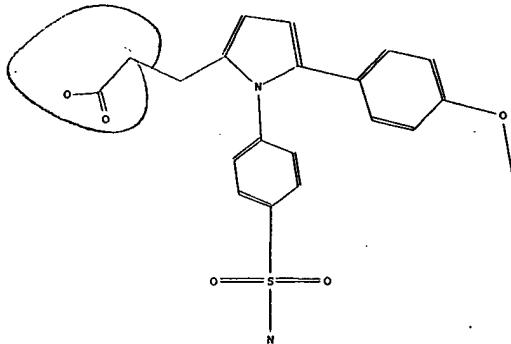
## L10 ANSWER 5 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI

## Preparation:

## PRE

## Reference(s):

1. Patent: Searle, G.D. and Co., US 3427305 1969  
 Chem. Abstr., 70, <1969>, 68134x  
 Beilstein Reg. No. (BRN): 456564 Beilstein  
 Molecular Formula (MF): C20 H20 N2 O5 S  
 Autonomous Name (AUN):  
 3<->(4-methoxy-phenyl)-1-(4-sulfamoyl-phenyl)-1H-pyrrol-2-yl>-propionic acid  
 Beilstein Reference (SO): 5-22  
 CAS Reg. No. (RN): 21766-12-1  
 Beilstein Pref. RN (BPR): 21766-12-1  
 Formula Weight (FW): 400.45  
 Lawson Number (LN): 26726 16308, 289



## Ring System Data:

Number of Rings (CNR): 3

## L10 ANSWER 5 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI (Continued)

Ring Systems (CNRs):	3
Diff. Ring Systems (CNDRS):	2
Ring Heteros (CNRH):	1
Acyclic Heteros (CNAH):	7

Beilstein Ring Index (BRIX)	Ring System Formula (RF)	BRIX Count
5.1.0-1.1-2.2	C4N	1
6.1.0-0-3.1	C6	2

## Field Availability:

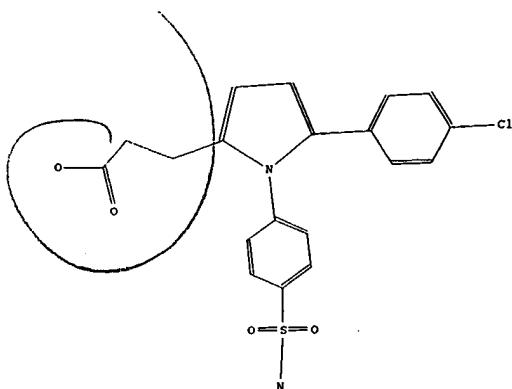
Code	Name	Occur. (OCC)
MF	Molecular Formula	1
AUN	Autonom Name	1
FW	Formula Weight	1
SO	Beilstein Citation	1
LN	Lawson Number	3
RN	CAS Registry Number	1
BPR	Beilstein Preferred RN	1
SF	Stereo Family	1
PRE	Preparation	1
MP	Melting Point	1

## L10 ANSWER 6 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI

## Preparation:

## PRE

Reference(s):  
 1. Patent: Searle, G.D. and Co., US 3427305 1969  
 Chem. Abstr., 70, <1969>, 68134x  
 Beilstein Reg. No. (BRN): 455073 Beilstein  
 Molecular Formula (MF): C19 H17 Cl N2 O4 S  
 Autonomous Name (AUN):  
 3<->(4-chloro-phenyl)-1-(4-sulfamoyl-phenyl)-1H-pyrrol-2-yl>-propionic acid  
 Beilstein Reference (SO): 5-22  
 CAS Reg. No. (RN): 21766-10-9  
 Beilstein Pref. RN (BPR): 21766-10-9  
 Formula Weight (FW): 404.87  
 Lawson Number (LN): 26414, 16308



## L10 ANSWER 6 OF 6 COPYRIGHT 2001 BEILSTEIN CDS MDLI (Continued)

Beilstein Ring Index (BRIX)	Ring System Formula (RF)	BRIX Count
5.1.0-1.1-2.2	C4N	1
6.1.0-0-3.1	C6	2

## Field Availability:

Code	Name	Occur. (OCC)
MF	Molecular Formula	1
AUN	Autonom Name	1
FW	Formula Weight	1
SO	Beilstein Citation	1
LN	Lawson Number	2
RN	CAS Registry Number	1
BPR	Beilstein Preferred RN	1
SF	Stereo Family	1
PRE	Preparation	1
MP	Melting Point	1

## Ring System Data:

Number of Rings (CNR): 3  
 Ring Systems (CNRs): 3  
 Diff. Ring Systems (CNDRS): 2  
 Ring Heteros (CNRH): 1  
 Acyclic Heteros (CNAH): 7

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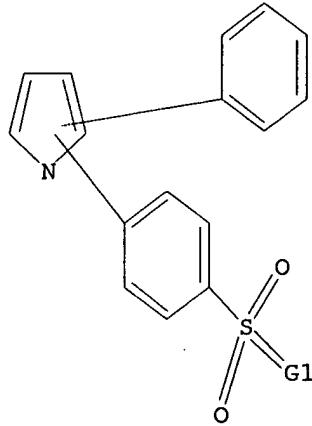
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	100.24	341.73
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.82

STN INTERNATIONAL LOGOFF AT 17:43:05 ON 17 APR 2001

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L1 HAS NO ANSWERS

L1 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s ll ful

FULL SEARCH INITIATED 17:44:28 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 28657 TO ITERATE

100.0% PROCESSED 28657 ITERATIONS  
 SEARCH TIME: 00.00.01

98 ANSWERS

L2 98 SEA SSS FUL L1

=> s 12 and caplus/lc  
 17702225 CAPLUS/LC  
 L3 98 L2 AND CAPLUS/LC

=> fil caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	137.36	137.51

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FILE COVERS 1967 - 17 Apr 2001 VOL 134 ISS 17  
 FILE LAST UPDATED: 16 Apr 2001 (20010416/ED)

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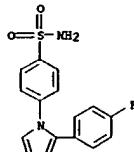
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L4 15 L2

=> d 1-15 ibib abs hitstr

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:637744 CAPLUS  
 DOCUMENT NUMBER: 134:39080  
 TITLE: A method for including protein flexibility in protein-ligand docking: improving tools for database mining and virtual screening  
 AUTHOR(S): Broughton, B. B.  
 CORPORATE SOURCE: Merck, Sharp & Dohme Neuroscience Research Centre, Essex, UK  
 SOURCE: J. Mol. Graphics Model. (2000), 18(3), 247-257 CODEN: JMGMF1 ISSN: 1093-3263  
 PUBLISHER: Elsevier Science Inc.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Second-generation methods for docking ligands into their biol. receptors, such as FLOG, provide for flexibility of the ligand but not of the receptor. Mol. dynamics based methods, such as free energy perturbation, account for flexibility, solvent effects, etc., but are very time consuming. We combined the use of statistical anal. of conformational samples from short-run protein mol. dynamics with grid-based docking protocols and demonstrated improved performance in two test cases. Our statistical anal. explores the importance of the av. strength of a potential interaction with the biol. target and optionally applies a weighting depending on the variability in the strength of the interaction seen during dynamics simulation. Using these methods, we improved the no. of known dihydrofolate reductase ligands found in the top-ranked 10<sup>3</sup> of a database of drug-like mols., in searches based on the three-dimensional structure of the protein. These methods are able to match the ability of manual docking to assess likely inactivity on steric grounds and indeed to rank order ligands from a homologous series of cyclooxygenase-2 inhibitors with good correlation to their true activity. Furthermore, these methods reduce the need for human intervention in setting up mol. docking  
 expts  
 IT 189501-09-5  
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (method for including protein flexibility in protein-ligand docking -

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 Improving tools for database mining and virtual screening  
 RN 189501-09-5 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)



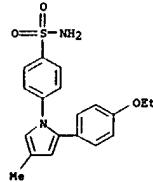
REFERENCE COUNT: 32  
 REFERENCE(S):  
<http://www.rcsb.org/pdb/>  
 (4) Bernstein, P; J Mol Biol, 1977, V112, P535 CAPLUS  
 (5) Bertenshaw, S; Bioorg Med Chem Lett 1995, V5, P2919 CAPLUS  
 (6) Bolin, J; J Biol Chem 1982, V257, P13650 CAPLUS  
 (7) Cornell, W; J Am Chem Soc 1995, V117, P5179 CAPLUS  
 (9) Goodsell, D; J Mol Recognit 1996, V9, P1 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:456950 CAPLUS  
 DOCUMENT NUMBER: 133:84244  
 TITLE: Method of using a cyclooxygenase-2 inhibitor and an integrin antagonist as a combination therapy in the treatment of neoplasia  
 INVENTOR(S): McKearn, John P.; Gordon, Gary; Cunningham, James J.; Gately, Stephen T.; Koki, Alane T.; Masferrer, Jaime L.  
 PATENT ASSIGNEE(S): G.D. Searle & Co., USA  
 SOURCE: PCT Int. Appl., 348 pp.  
 CODEN: PIXKD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9  
 PATENT INFORMATION:  

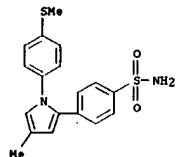
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000038786	A2	20000706	WO 1999-US30692	19991222
WO 2000038786	A3	20010308		

 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 PRIORITY APPLN. INFO.: US 1998-113786 19981223  
 AB Methods are provided to treat or prevent neoplasia disorders in a mammal using a combination of a cyclooxygenase-2 inhibitor, an integrin antagonist and an antineoplastic agent.  
 IT 197904-84-197905-01-4  
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cyclooxygenase-2 inhibitor and integrin antagonist in combination for neoplasia treatment)  
 RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



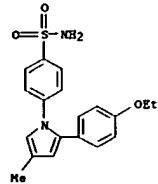
RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide, 4-[4-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



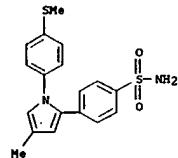
L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:456927 CAPLUS  
 DOCUMENT NUMBER: 133:84243  
 TITLE: Method of using a cyclooxygenase-2 inhibitor and one or more antineoplastic agents as a combination therapy in the treatment of neoplasia  
 INVENTOR(S): McKearn, John P.; Gordo, Gary; Cunningham, Jaime L.; Gately, Stephen T.; Koki, Alane T.; Masferrer, Jaime L.  
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA  
 SOURCE: PCT Int. Appl., 236 pp.  
 CODEN: PIIXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9  
 PATENT INFORMATION:  

PATENT NO.	Kind	DATE	APPLICATION NO.	DATE
WO 2000038730	A2	20000706	WO 1999-US30693	19991222
WO 2000038730	A1	20001102		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: US 1998-113786 19981223 AB Methods are provided to treat or prevent neoplasia disorders in a mammal using a combination of a cyclooxygenase-2 inhibitor and an antineoplastic agent. IT 197904-84-0 197905-01-4 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cyclooxygenase-2 inhibitor-antineoplastic agent combination for neoplasia treatment)				

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)



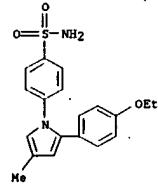
RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide, 4-[4-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



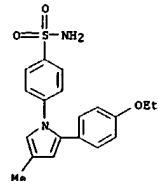
L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:456913 CAPLUS  
 DOCUMENT NUMBER: 133:84241  
 TITLE: Combination therapy of radiation and a cyclooxygenase 2 (COX-2) inhibitor for the treatment of neoplasia  
 INVENTOR(S): McKearn, John P.; Masferrer, Jaime L.; Milas, Lukas  
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA  
 SOURCE: PCT Int. Appl., 96 pp.  
 CODEN: PIIXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9  
 PATENT INFORMATION:  

PATENT NO.	Kind	DATE	APPLICATION NO.	DATE
WO 2000038716	A1	20000706	WO 1999-US30669	19991222
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: US 1998-113786 19981223 US 1999-385214 19990827 AB Methods are provided to treat or prevent neoplasia disorders in a mammal using a combination of radiation therapy and a COX-2 inhibitor. IT 197904-84-0 197904-84-0B, derivs. 197905-01-4 197905-01-4D, derivs. RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (COX-2 inhibitor-radiotherapy combination for neoplasia treatment) RN 197904-84-0 CAPLUS CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)				

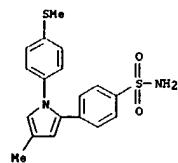
L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

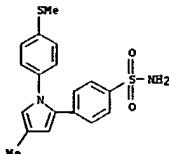


RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide, 4-[4-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-1-(4-(methylthio)phenyl)-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3  
 REFERENCE(S):  
 (1) Gordon, G; WO 9916227 A 1998 CAPLUS  
 (2) Milas, L; Journal of the National Cancer  
 Institute (Bethesda) 1999, V91(17), P1501 CAPLUS  
 (3) Sankyo Co; EP 0927555 A 1999 CAPLUS

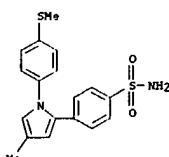
L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 2000:441655 CAPLUS  
 DOCUMENT NUMBER: 133:68922  
 TITLE: Method of using a cyclooxygenase-2 inhibitor and a matrix metalloproteinase inhibitor as a combination

INVENTOR(S): McKearn, John P.; Gordon, Gary; Cunningham, James J.; Jaime Gately, Stephen T.; Koki, Alane T.; Masferrer, Jaime L.  
 PATENT ASSIGNEE(S): G.D. Searle & Co., USA  
 SOURCE: PCT Int. Appl., 437 pp.  
 CODEN: PIIXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000037107	A2	20000629	WO 1999-US30776	19991222
WO 2000037107	A3	20010201		
U.S. AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
			US 1998-113786	19981223
			AB Methods are provided to treat or prevent neoplasia disorders in a mammal using a combination of a cyclooxygenase-2 inhibitor, a matrix metalloproteinase inhibitor and an antineoplastic agent.	
			IT 197904-84-0 197905-01-4	
			RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)	
			(cyclooxygenase-2 inhibitor and matrix metalloproteinase inhibitor in combination therapy for neoplasia treatment)	
			RN 197904-84-0 CAPLUS	

L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

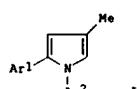
RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-1-(4-(methylthio)phenyl)-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 2000:181022 CAPLUS  
 DOCUMENT NUMBER: 132:207760  
 TITLE: Preparation of 4-methyl-1,2-diarylpyrroles and their intermediates

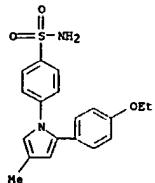
INVENTOR(S): Katsuhiko Noguchi, Yasuo Saito, Toshinori Fujimoto, Takebayashi, Toyonori  
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKOKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000080078	A2	20000421	JP 1999-179478	19990625
			JP 1998-192835	19980708
			CASREACT 132:207760; MARPAT 132:207760	
			GI	

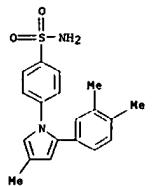


AB Pyrroles I [Ar1, Ar2 = (un)substituted C6-10 aryl], useful as analgesic-antipyretic agents (no data), are prepd. by reaction of Ar1COCH2CH(Me)CH2NO2 (Ar1 = same as I) with MeNO2 in the presence of bases, treatment of Ar1COCH2CH(Me)CH2NO2 (Ar1 = same as I) with bases, reaction with R1OH (R1 = C1-6 alkyl) and R2OH (R2 = C1-6 alkyl) or HOR1R2OH [R1R2 = C1-4 alkyl-(un)substituted trimethylene], and reaction of Ar1COCH2CH(Me)CH(OR1) OR2 (Ar1, R1, R2 = same as above) with Ar2NH2 (Ar2 = same as I) under acidic condition. 1-(3,4-Dimethylphenyl)-2-buten-1-one was reacted with MeNO2 in the presence of DBU under ice cooling for 1 h, treated with NaOMe, and reacted with neopentylglycol in the presence H2SO4 in MeOH at room temp. for 1 h to give 3-(5,5-dimethyl-1,3-dioxan-2-yl)-1-(3,4-dimethylphenyl)butan-1-one, which was reacted with sulfanilamide in PrOH-AcOH mixt. at 100.degrees. for 3 h to give 71.3% 4-methyl-2-(3,4-dimethylphenyl)-1-(4-sulfamoylphenyl)pyrrole.  
 IT 197904-84-0P, 4-Methyl-2-(4-ethoxyphenyl)-1-(4-sulfamoylphenyl)pyrrole 197904-95-3P, 4-Methyl-2-(3,4-

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 dimethylphenyl)-1-(4-sulfamoylphenyl)pyrrole 260415-79-0,  
 4-Methyl-2-(2,5-dimethylphenyl)-1-(4-sulfamoylphenyl)pyrrole  
 RL: IMP (Industrial manufacture); SPN (Synthetic preparation); PREP  
 (Preparation)  
 (prepn. of methyldiarylpyrroles by addn. of unsatd. aryl ketones  
 with  
 NaNO<sub>2</sub>, alkylation, and cyclization with amines)  
 RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

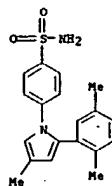


RN 197904-95-3 CAPLUS  
 CN Benzenesulfonamide,  
 4-[2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)



RN 260415-79-0 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(2,5-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1999:795808 CAPLUS

DOCUMENT NUMBER: 132:35714

TITLE: Preparation of heterocyclic sulfonylbenzenes  
 compounds as anti-inflammatory/analgesic agents.

INVENTOR(S): Ando, Kazuo; Kato, Tomoki; Kawai, Akiyoshi;

Nonomura,

PATENT ASSIGNEE(S): Tomomi

Pfizer Pharmaceuticals Inc., USA

SOURCE: PCT Int. Appl., 236 pp.

CODEN: PIIXD2

DOCUMENT TYPE: Patent

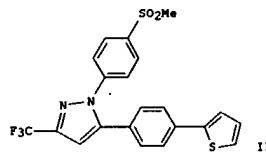
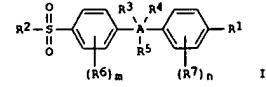
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

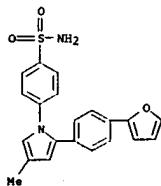
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964415	A1	19991216	WO 1999-IB970	19990531
DE, W:	AL, AM, AT, AU, AZ, EA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9938414	A1	19991230	AU 1999-38414	19990531
EP 1086097	A1	20010328	EP 1999-921043	19990531
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
PRIORITY APPLN. INFO.:			WO 1998-IB912	19980611
OTHER SOURCE(S):	MARPAT	132:35714	WO 1999-IB970	19990531
GI				

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



AB This invention provides a compd. of formula (I) or its pharmaceutically acceptable salt thereof [wherein A is partially unsatd. or unsatd. five membered heterocyclic, or partially unsatd. or unsatd. five membered carbocyclic, wherein the 4-(sulfonyl)phenyl and the 4-substituted Ph in formula I are attached to ring atoms of Ring A, which are adjacent to each other; R1 is optionally substituted aryl or heteroaryl, with the proviso that when A is pyrazole, R1 is heteroaryl; R2 is Cl-4 alkyl, halo-substituted Cl-4 alkyl, Cl-4 alkylamino, Cl-4 dialkylamino or amino; R3, R4 and R5 are independently hydrogen, halo, Cl-4 alkyl, halo-substituted Cl-4 alkyl or the like; or two of R3, R4 and R5 are taken together with atoms to which they are attached and form a 4-7 membered ring; R6 and R7 are independently hydrogen, halo, Cl-4 alkyl, halo-substituted Cl-4 alkyl, Cl-4 alkoxy, Cl-4 alkylthio, Cl-4 alkylamino or N,N-di Cl-4 alkylamino; and m and n are independently 1, 2, 3 or 4]. This invention also provides a pharmaceutical compn. useful for the treatment of a medical condition in which prostaglandins are implicated as pathogens. This invention relates to compd. and pharmaceutical compns. for the treatment of cyclooxygenase mediated diseases. These compds. inhibit the biosynthesis of prostaglandins by intervention of the action of the enzyme cyclooxygenase on arachidonic acid, and are therefore useful.

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 in the treatment or alleviation of inflammation and other  
 inflammation  
 associated disorders, such as arthritis, in mammals (no data). Thus,  
 To a stirred soln. of 1-[4-(Methylsulfonyl)phenyl]-5-(4-bromophenyl)-3-trifluoromethyl-1H-pyrazole (10.27 g) in DMF (8 mL) was added 3-thiophenboronic acid (0.02 g), bis(triphenylphosphine)palladium(II)chloride (0.05 g) and satd. NaHCO<sub>3</sub> soln. (2 mL) at room temp. under nitrogen.  
 The mixt. was heated at reflux temp. for 16 h, and cooled down to room temp. to give, after purifn. by flash chromatog. eluting with Et acetate/hexane (1:1), 1-[4-(Methylsulfonyl)phenyl]-5-[4-(2-thienyl)phenyl]-3-trifluoromethyl-1H-pyrazole (II) in 64% yield.  
 IT 252559-49-2P  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); [prepn. of heterocyclic sulfonylbenzene compds. as cyclooxygenase inhibitors, prostaglandin biosynthesis inhibitors, anti-inflammatory, analgesic agents]  
 RN 252559-49-2 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-(2-furanyl)phenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16  
 REFERENCE(S): (1) Angelini Ricerche SPA; WO 9822442 A 1998  
 CAPLUS  
 (3) Bayer AG; DE 2310446 A 1974 CAPLUS  
 (4) Berger, L; US 3896145 A 1975 CAPLUS

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

ACCESSION NUMBER: 1999:440003 CAPLUS  
 DOCUMENT NUMBER: 131:82985

TITLE: Use of cyclooxygenase-2 inhibitors for the treatment and prevention of tumors, tumor-related disorders and cachexia

INVENTOR(S): Kurakata, Shinichi; Hanai, Masaharu; Kanai, Saori; Kimura, Tomio

PATENT ASSIGNEE(S): Sankyo Company Limited, Japan  
 SOURCE: Eur. Pat. Appl., 49 pp.

DOCUMENT TYPE: Patent  
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 927555	A1	19990707	EP 1998-310510	19981221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,				
PT, IE, SI, LT, LV, FI, RO				
JP 11246403	A2	19990914	JP 1998-362188	19981221
ZA 9811840	A	19990623	ZA 1998-11840	19981223
NO 9806089	A	19990625	NO 1998-6089	19981223
AU 9898225	A1	19990715	AU 1998-98225	19981224
CH 1230407	A	19991006	CN 1998-111656	19981224
BR 9805544	A	20000328	BR 1998-5544	19981224
JP 11279078	A2	19991012	JP 1999-14059	19990122
JP 2000095685	A2	20000404	JP 1999-176139	19990623
JP 2000159690	A2	20000613	JP 1999-176140	19990623
PRIORITY APPLN. INFO.:			JP 1997-354499	19971224
			JP 1998-15306	19980128
			JP 1998-204907	19980721
			JP 1998-269444	19980924

OTHER SOURCE(S): MARPAT 131:82985

AB Certain cyclooxygenase-2 inhibitors are useful for the treatment and prevention of tumors and tumor-related disorders and cachexia.

IT 197904-29-3 197904-30-6 197904-31-7

197904-32-8 197904-69-1 197904-79-3

197904-81-7 197904-82-8 197904-83-9

197904-94-2 197904-95-3 197904-96-4

197904-99-7 197905-00-3 197905-01-4

197905-02-5 197905-03-6 197905-05-8

197905-15-0 197905-18-3 197905-20-7

197905-47-8 197905-48-9

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(cyclooxygenase-2 inhibitors for treatment and prevention of tumors, tumor-related disorders, and cachexia)

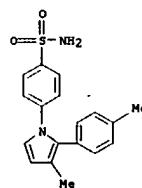
RN 197904-29-3 CAPLUS

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 (5) Black, C; WO 9619469 A 1996 CAPLUS  
 (6) Callaghan, P; J Chem Soc Perkin Trans 1 1975, 14,

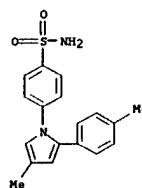
P1386 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

CN Benzenesulfonamide, 4-[3-methyl-2-(4-methylphenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

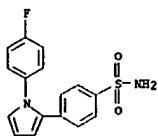


RN 197904-30-6 CAPLUS  
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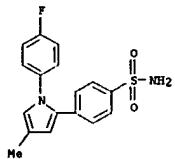


RN 197904-31-7 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

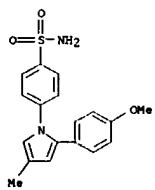
L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-32-8 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-4-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



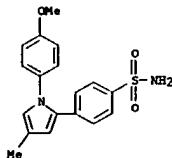
RN 197904-69-1 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)



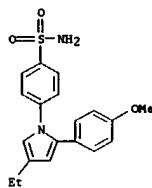
L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

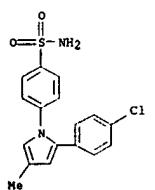
RN 197904-79-3 CAPLUS  
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 (9CI) (CA INDEX NAME)



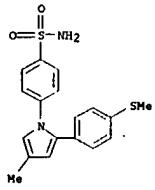
RN 197904-81-7 CAPLUS  
 CN Benzenesulfonamide, 4-[4-ethyl-2-(4-methoxyphenyl)-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)



RN 197904-82-8 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-chlorophenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

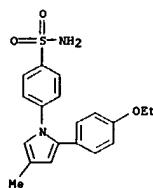


RN 197904-83-9 CAPLUS  
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 4-(4-methyl-2-[4-(methylthio)phenyl]-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

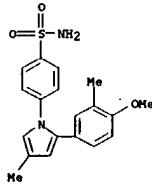


RN 197904-84-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

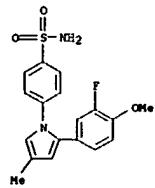


RN 197904-86-2 CAPLUS  
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 4-[2-(4-methoxy-3-methylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

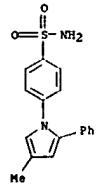


RN 197904-88-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-[2-(3-fluoro-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

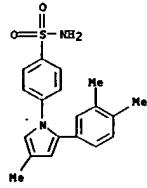


RN 197904-94-2 CAPLUS  
 CN Benzenesulfonamide, 4-(4-methyl-2-phenyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

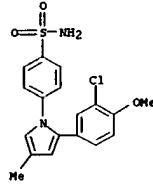


RN 197904-95-3 CAPLUS  
 CN Benzenesulfonamide, 4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

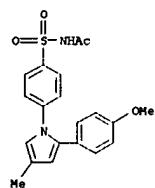


RN 197904-96-4 CAPLUS  
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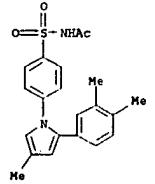


RN 197904-99-7 CAPLUS  
 CN Acetamide, N-[4-(2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl)phenyl]sulfonyl- (9CI) (CA INDEX NAME)

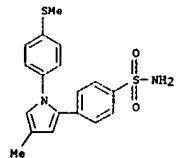
L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-00-3 CAPLUS  
 CN Acetamide, N-[4-(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)phenyl]sulfonyl- (9CI) (CA INDEX NAME)

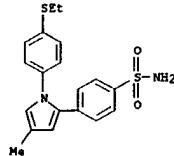


RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide, 4-(4-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)

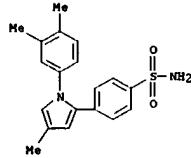


L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-02-5 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-(ethylthio)phenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

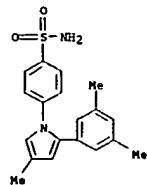


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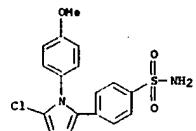


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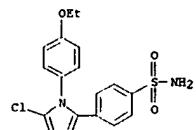
L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



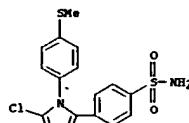
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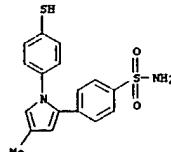
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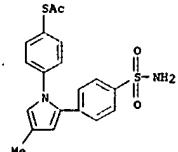
L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
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 (9CI) (CA INDEX NAME)

RN 197905-47-8 CAPLUS  
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 (9CI) (CA INDEX NAME)



RN 197905-48-9 CAPLUS  
 CN Ethanethioic acid,  
 S-[4-(2-[4-(aminosulfonyl)phenyl]-4-methyl-1H-pyrrol-1-  
 yl]phenyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

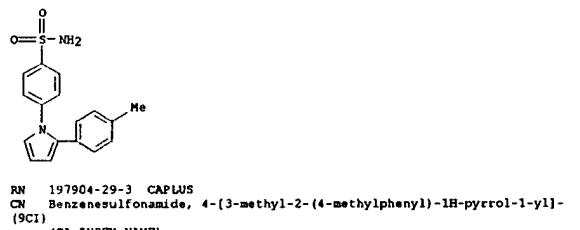
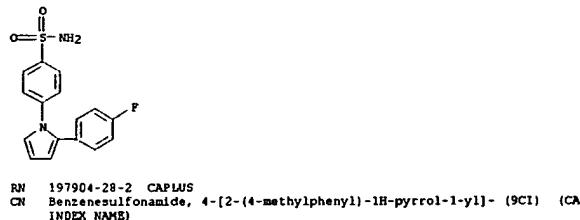


REFERENCE COUNT: 9  
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 (1) Futaki, N; PROSTAGLANDINS 1994, V47, P55  
 (2) G D Searle & Co; WO 9806708 A 1998 CAPLUS  
 (3) Japan Tobacco Inc; JP 09052882 A CAPLUS  
 (4) Japan Tobacco Inc; EP 0745596 A 1996 CAPLUS  
 (5) Li, J; JOURNAL OF MEDICINAL CHEMISTRY 1995,  
 V38(22), P4570 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

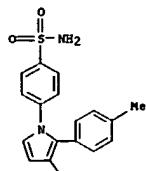
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 inhibitors  
 INVENTOR(S): Kimura, Fumio; Noguchi, Yasuo; Nakao, Akira;  
 Suzuki, Keisuke; Ushiyama, Shigeru; Kawahara, Akihiro;  
 Miyamoto, Masaaki  
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 69 pp.  
 CODEN: JKOKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11180871	A2	19990706	JP 1999-269718	19990924
PRIORITY APPLN. INFO.:			JP 1997-261378	19970926
OTHER SOURCE(S): MARPAT 13182957 AB The title compds. selectively inhibit the activity of cyclooxygenase-2, thereby inhibit the prodn. of cytokines and leukotrienes and prevent bone resorption. The invention compds. and their pharmaceutically acceptable salts are also effective as analgesics, anti-inflammatories, and antipyretics. For example, 1-(4-methoxyphenyl)-2-(4-methoxyphenyl)pyrrole was prepnd. and tested for its biol. activities.				
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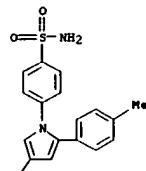
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
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L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

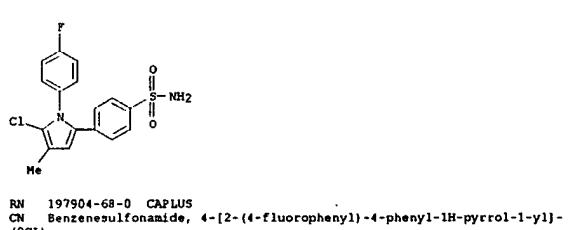
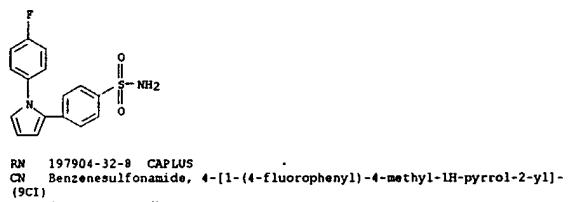


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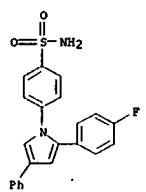


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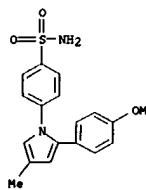
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



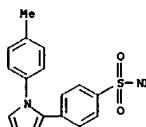
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



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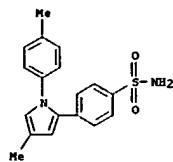


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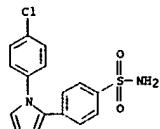


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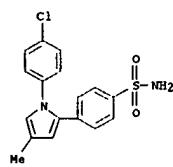
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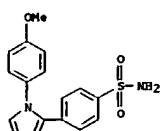
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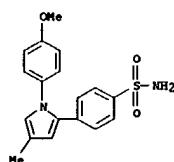
RN 197904-77-1 CAPLUS  
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L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 (CA INDEX NAME)

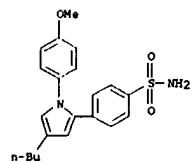


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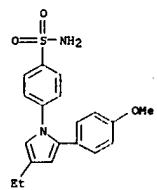


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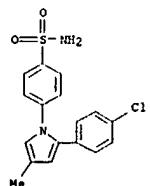
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



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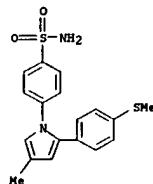


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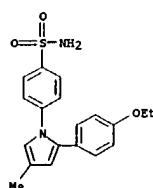


L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

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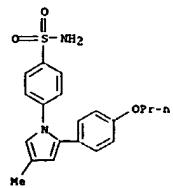


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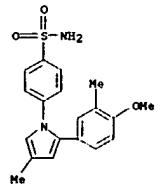


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L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

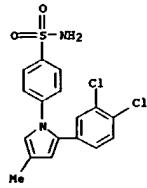


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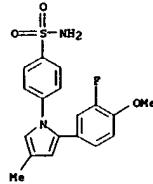


RN 197904-87-3 CAPLUS  
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L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

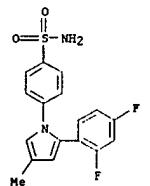


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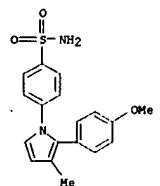


RN 197904-89-5 CAPLUS  
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L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

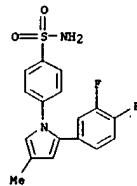


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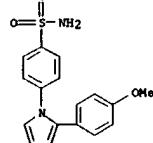


RN 197904-91-9 CAPLUS  
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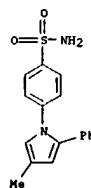
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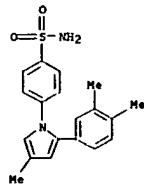
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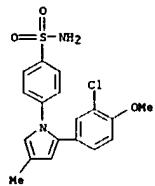
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L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
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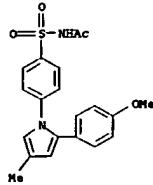


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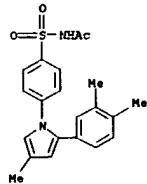


RN 197904-99-7 CAPLUS  
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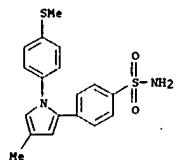


RN 197905-00-3 CAPLUS  
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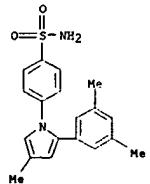


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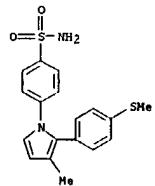
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



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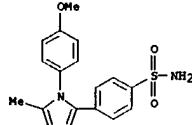


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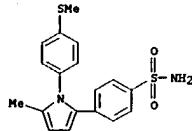


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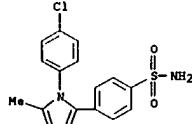
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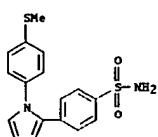


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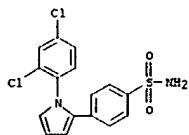


RN 197905-10-5 CAPLUS  
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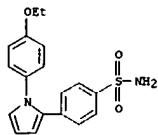
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-11-6 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(2,4-dichlorophenyl)-1H-pyrrol-2-yl]- (9CI)  
 (CA INDEX NAME)

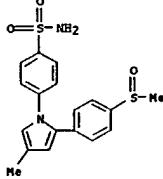


RN 197905-12-7 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-ethoxyphenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

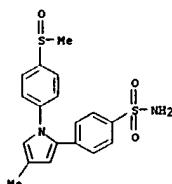


RN 197905-13-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-2-(4-(methylsulfinyl)phenyl)-1H-pyrrol-1-  
 yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

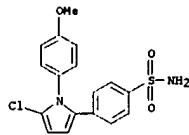


RN 197905-14-9 CAPLUS  
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 4-[4-methyl-1-[4-(methylsulfinyl)phenyl]-1H-pyrrol-2-  
 yl]- (9CI) (CA INDEX NAME)

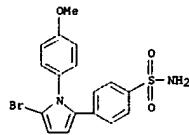


RN 197905-15-0 CAPLUS  
 CN Benzenesulfonamide, 4-[5-chloro-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

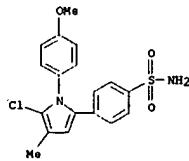
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-16-1 CAPLUS  
 CN Benzenesulfonamide, 4-[5-bromo-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

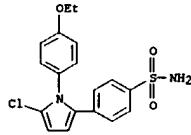


RN 197905-17-2 CAPLUS  
 CN Benzenesulfonamide,  
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 yl]- (9CI) (CA INDEX NAME)

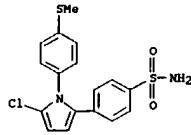


RN 197905-18-3 CAPLUS  
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 (9CI) (CA INDEX NAME)

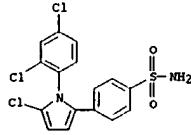
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-20-7 CAPLUS  
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 4-[5-chloro-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

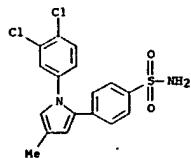


RN 197905-21-8 CAPLUS  
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 4-[5-chloro-1-(2,4-dichlorophenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

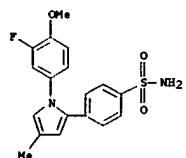


RN 197905-23-0 CAPLUS  
 CN Benzenesulfonamide,  
 4-[1-(2,4-dichlorophenyl)-4-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

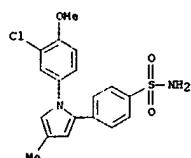
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-26-3 CAPLUS  
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 4-(1-(3-fluoro-4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
 yl)- (9CI) (CA INDEX NAME)

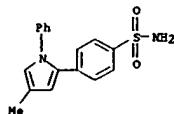


RN 197905-27-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(1-(3-chloro-4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
 yl)- (9CI) (CA INDEX NAME)

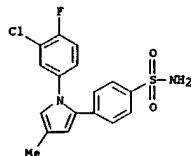


L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-28-5 CAPLUS  
 CN Benzenesulfonamide, 4-(4-methyl-1-phenyl-1H-pyrrol-2-yl)- (9CI) (CA  
 INDEX NAME)

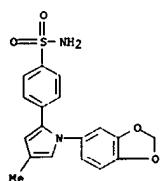


RN 197905-29-6 CAPLUS  
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 4-(1-(3-chloro-4-fluorophenyl)-4-methyl-1H-pyrrol-2-  
 yl)- (9CI) (CA INDEX NAME)

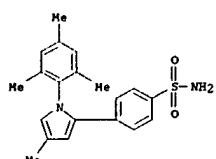


RN 197905-30-9 CAPLUS  
 CN Benzenesulfonamide,  
 4-(1-(1,3-benzodioxol-5-yl)-4-methyl-1H-pyrrol-2-yl)-  
 (9CI) (CA INDEX NAME)

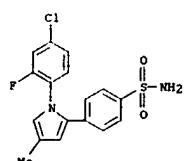
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



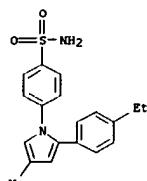
RN 197905-31-0 CAPLUS  
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 4-[4-methyl-1-(2,4,6-trimethylphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



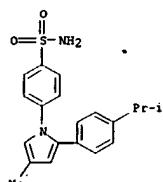
RN 197905-32-1 CAPLUS  
 CN Benzenesulfonamide,  
 4-(1-(4-chloro-2-fluorophenyl)-4-methyl-1H-pyrrol-2-  
 yl)- (9CI) (CA INDEX NAME)



RN 197905-33-2 CAPLUS

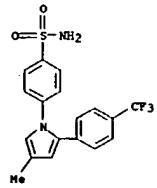
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-[2-(4-ethylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

RN 197905-34-3 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-2-[4-(1-methylethyl)phenyl]-1H-pyrrol-1-  
 yl]- (9CI) (CA INDEX NAME)

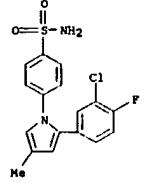


RN 197905-35-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-2-[4-(trifluoromethyl)phenyl]-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

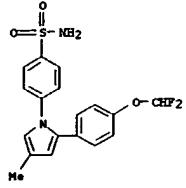


RN 197905-36-5 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(4-chlorophenyl)-4-methyl-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

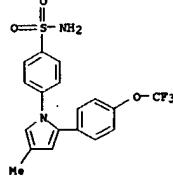


RN 197905-37-6 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(4-(difluoromethoxy)phenyl)-4-methyl-1H-pyrrol-1-  
 yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

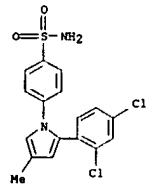


RN 197905-38-7 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-2-(4-(trifluoromethoxy)phenyl)-1H-pyrrol-1-  
 yl]- (9CI) (CA INDEX NAME)

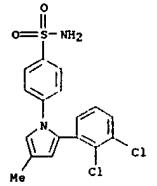


RN 197905-39-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-[2-(2,4-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl]-  
 (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

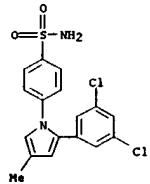


RN 197905-40-1 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3,5-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

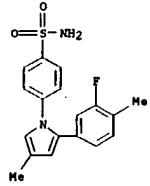


RN 197905-41-2 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3,5-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl)-  
 (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

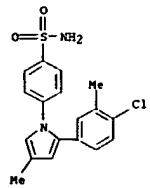


RN 197905-44-5 CAPLUS  
 CN Benzenesulfonamide,  
 4-[2-(3-fluorophenyl)-4-methyl-1H-pyrrol-1-  
 yl]- (9CI) (CA INDEX NAME)

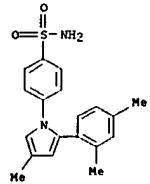


RN 197905-45-6 CAPLUS  
 CN Benzenesulfonamide,  
 4-[2-(4-chlorophenyl)-4-methyl-1H-pyrrol-1-  
 yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

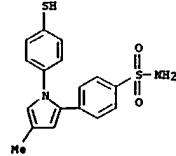


RN 197905-46-7 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-  
(9CI) (CA INDEX NAME)

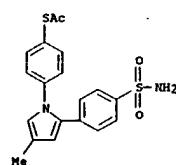


RN 197905-47-8 CAPLUS  
CN Benzenesulfonamide, 4-(1-(4-mercaptophenyl)-4-methyl-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

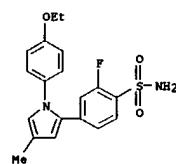
L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-48-9 CAPLUS  
CN Ethanethioic acid,  
S-(4-(2-(4-(aminosulfonyl)phenyl)-4-methyl-1H-pyrrol-1-  
yl)phenyl) ester (9CI) (CA INDEX NAME)

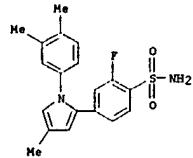


RN 229491-84-3 CAPLUS  
CN Benzenesulfonamide, 4-(1-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-2-yl)-2-  
fluoro- (9CI) (CA INDEX NAME)

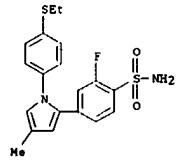


L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 229491-85-4 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-2-yl)-2-  
fluoro- (9CI) (CA INDEX NAME)

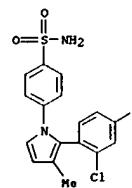


RN 229491-87-6 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(4-(ethylthio)phenyl)-4-methyl-1H-pyrrol-2-yl)-2-  
fluoro- (9CI) (CA INDEX NAME)

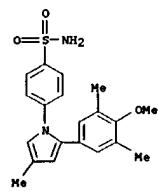


RN 229491-91-2 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(2,4-dichlorophenyl)-3-methyl-1H-pyrrol-1-yl)-  
(9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

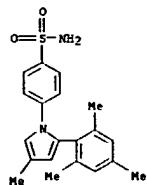


RN 229491-92-3 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(4-methoxy-3,5-dimethylphenyl)-4-methyl-1H-pyrrol-  
1-yl)- (9CI) (CA INDEX NAME)

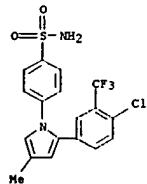


RN 229491-93-4 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(2,4,6-trimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-  
(9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

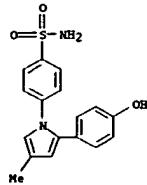


RN 229491-94-5 CAPLUS  
 CN Benzenesulfonamide, 4-(2-(4-chloro-3-(trifluoromethyl)phenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)



RN 229491-96-7 CAPLUS  
 CN Benzenesulfonamide, 4-(2-(4-hydroxyphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:402414 CAPLUS

DOCUMENT NUMBER: 129:01660

TITLE: Preparation of substituted pyrroles for the treatment of inflammation

INVENTOR(S): Khanna, Ish K.; Weier, Richard M.; Yu, Yi G.D. Searle &amp; Co., USA; Khanna, Ish K.; Weier, Richard

SOURCE: M.; Yu, Yi PCT Int. Appl., 99 pp.

CODEN: PIXKD2

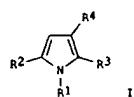
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM.: COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9825896	A1	19980618	WO 1997-US22488	19971209
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TH, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9853776	A1	19980703	AU 1998-53776	19971209
US 5935990	A	19990810	US 1997-987356	19971209
EP 946507	A1	19991006	EP 1997-950891	19971209
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, FI				
PRIORITY APPLN. INFO.:		US 1996-32688	19961210	
OTHER SOURCE(S): MARPAT 129:81660		WO 1997-US22488	19971209	
GI				



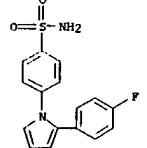
L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

AB The title compd. [I; R1, R2 = (un)substituted aryl, cycloalkenyl, heterocycl; R3 = H, halo, Me, alkoxy carbonyl alkyl; R4 = H, halo, alkyl, etc.], useful in treating inflammation, arthritis, pain and fever, were prep'd. Thus, reaction of 1-(4-methylsulfonylphenyl)-1,4-pentanedione (prep'n. described) with 4-fluoroniline in the presence of p-TsOH in PhMe afforded 79% I [R1 = 4-FC6H4; R2 = 4-(MeSO2)C6H4; R3 = Me; R4 = H] which showed IC50 of < 0.1 .mu.M against COX-2 and IC50 of > 100 .mu.M against COX-1. Compds. of particular interest are pyrroles I, wherein at least one of R1 and R2 is Ph substituted with methoxysulfonyl or aminosulfonyl.

IT 199501-09-5P 209167-35-1P  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prep'n. of substituted pyrroles for the treatment of inflammation)

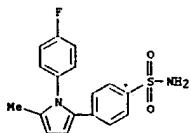
RN 199501-09-5 CAPLUS

CN Benzenesulfonamide, 4-(2-(4-fluorophenyl)-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)



RN 209167-35-1 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-5-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

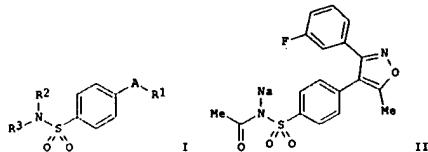


L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997-696749 CAPLUS  
 DOCUMENT NUMBER: 127:358861  
 TITLE: Substituted benzenesulfonamide derivatives as  
 prodrugs  
 INVENTOR(S): Talley, John J.; Malecha, James W.; Bertenshaw,  
 Stephen; Graneto, Matthew J.; Carter, Jeffery S.;  
 Li, Jinglin; Nagarajan, Srinivasan; Brown, David L.;  
 et al.  
 PATENT ASSIGNEE(S): G.D. Searle & Co., USA; Talley, John J.; Malecha,  
 James W.; Bertenshaw, Stephen; Graneto, Matthew  
 J.; Carter, Jeffery S.; Li, Jinglin  
 SOURCE: PCT Int'l Appl., 184 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9738986	A1	19971023	WO 1997-US5497	19970411
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SM, TD, TG CA 2249009	AA	19971023	CA 1997-2249009	19970411
AU 9727227	A1	19971107	AU 1997-27227	19970411
EP 892791	A1	19990127	EP 1997-921092	19970411
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1216043	A	19990505	CN 1997-193747	19970411
BR 9708574	A	19990803	BR 1997-8574	19970411
JP 20000509029	T2	20000718	JP 1997-537139	19970411
US 5932598	A	19990803	US 1998-5610	19980112
NO 9804727	A	19981214	NO 1998-4727	19981009
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LV 12239	B	19990820	LV 1998-215	19981012

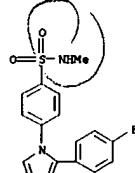
L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 PRIORITY APPLN. INFO.: US 1996-631514 19960412  
 WO 1997-US5497 19970411

OTHER SOURCE(S): MARPAT 127:358861  
 GI



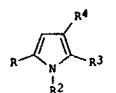
AB Prodrugs of COX-2 inhibitors, of formula I or their pharmaceutically acceptable salts, are useful in treating inflammation and inflammation-related disorders (wherein A = (un)substituted partially unsatd. heterocycl, heteroaryl, cycloalkenyl or aryl; R1 = (un)substituted heterocycl, cycloalkyl, cycloalkenyl, or aryl; R2 = H, alkoxycarbonylalkyl; R3 = alkyl, carboryalkyl, acyl, alkoxy carbonyl, heteroacetyl carbonyl, alkoxy carbonylalkyl carbonyl, alkoxy carbonyl carbonyl, amino acid residue, or alkyl carbonyl amino alkyl carbonyl; provided A .noteq. tetrazolium or pyridinium, and A .noteq. indanone when R3 = alkyl or carboxyalkyl). Preps. of over 80 compds. are described. For instance, 4-[5-methyl-3-(3-fluorophenyl)isoxazol-4-yl]benzenesulfonamide underwent N-acetylation with Ac2O, Et3N, and DMAP in THF (81%), and saponification with NaOH in EtOH (97%), to give title salt II. At 30 mg/kg orally in the rat paw edema test, II gave 65% inhibition. Analgesic activity in rats, and a metab. assay with S9 liver fractions, are also described for 3 selected compds.  
 IT 189501-10-8P  
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of substituted benzenesulfonamide derivs. as prodrugs of COX-2 inhibitors)  
 RN 189501-10-8 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]-N-methyl- (9CI)

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 (CA INDEX NAME)



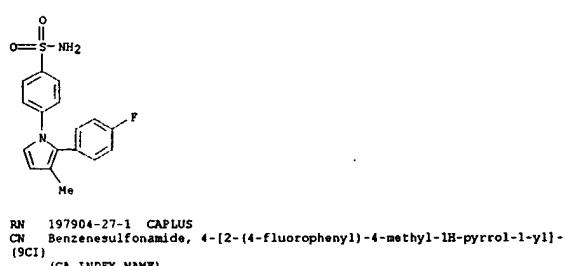
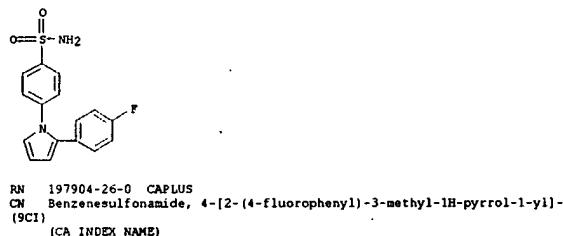
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997:670926 CAPLUS  
 DOCUMENT NUMBER: 127:331392  
 TITLE: Preparation of 1,2-diphenylpyrroles as cyclooxygenase-2 inhibitors  
 INVENTOR(S): Kimura, Tomio; Noguchi, Yasuo; Nakao, Akira;  
 Suzuki, Keisuke; Ushiyama, Shigeru; Kawara, Akihiro;  
 Miyamoto, Masaaki  
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 140 pp.  
 CODEN: EPXXWD  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 799823	A1	19971008	EP 1997-302245	19970402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,				
PT, 12, FI				
US 5908858	A	19990601	US 1997-024775	19970326
AU 971653	A1	19971009	AU 1997-16653	19970402
AU 71030	B2	19990916		
CA 2201812	AA	19971005	CA 1997-2201812	19970404
NO 9701564	A	19971006	NO 1997-1564	19970404
JP 09323971	A2	19971216	JP 1997-86809	19970404
JP 3034819	B2	20000417		
RU 2126044	C1	19990120	RU 1997-105191	19970404
CN 1168372	A	19971224	CN 1997-113404	19970405
PRIOITY APPLN. INFO.: JP 1996-83562 19960405				
OTHER SOURCE(S): MARPAT 127:331392				
GI				



AB Title compds. [e.g., I; R = ZSO<sub>2</sub>R<sub>1</sub>; R<sub>1</sub> = alkyl or MeRa; Ra = H, alkanoyl, alkoxycarbonyl, etc.; R<sub>2</sub> = (un)substituted Ph; R<sub>3</sub> = H, halo, (un)substituted alkyl; R<sub>4</sub> = H, (un)substituted alkyl, aryl(alkyl), etc., Z]

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 - (un)substituted Ph] were prep'd. Thus, 4-(MeO)C6H4NSi2 was condensed with 4-(OBc)C6H4SO2Me and the product treated with Me3SiCl/ZnCl2 to give 4-(MeO)C6H4NBc(CH<sub>2</sub>)C6H4(SO<sub>2</sub>Me)-4 which was cyclocondensed with CH<sub>2</sub>:CHCHO to give I [R = C6H4(SO<sub>2</sub>Me)-4, R<sub>2</sub> = C6H4(OMe)-4, R<sub>3</sub> = R<sub>4</sub> = H].

Data for biol. activity of title compds. were given.

I 197904-28-2P 197904-29-3P 197904-30-6P  
 197904-31-7P 197904-32-8P 197904-52-2P  
 197904-68-1P 197904-69-1P 197904-74-8P  
 197904-75-9P 197904-76-0P 197904-77-1P  
 197904-78-2P 197904-79-3P 197904-80-6P  
 197904-81-7P 197904-82-8P 197904-83-9P  
 197904-84-0P 197904-85-1P 197904-86-2P  
 197904-87-3P 197904-88-4P 197904-89-5P  
 197904-90-8P 197904-91-9P 197904-92-0P  
 197904-93-1P 197904-94-2P 197904-95-3P  
 197904-96-4P 197904-98-6P 197904-99-7P  
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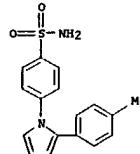
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 1,2-diphenylpyrroles as cyclooxygenase-2 inhibitors)

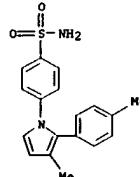
RN 189501-09-5 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]-(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197904-28-2 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-methylphenyl)-1H-pyrrol-1-yl]-(9CI) (CA INDEX NAME)

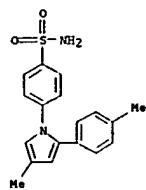


RN 197904-29-3 CAPLUS  
 CN Benzenesulfonamide, 4-[3-methyl-2-(4-methylphenyl)-1H-pyrrol-1-yl]-(9CI)  
 (CA INDEX NAME)

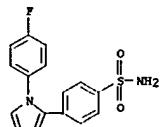


RN 197904-30-6 CAPLUS  
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 (CA INDEX NAME)

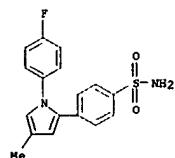
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



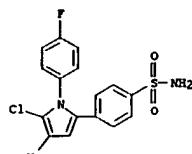
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 CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



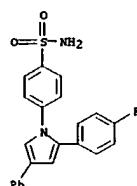
RN 197904-32-8 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-fluorophenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 RN 197904-52-2 CAPLUS  
 CN Benzenesulfonamide,  
 4-[5-chloro-1-(4-fluorophenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

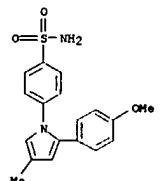


RN 197904-68-0 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-4-phenyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

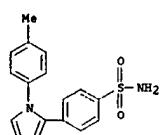


RN 197904-69-1 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

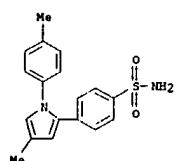
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-74-8 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-methylphenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

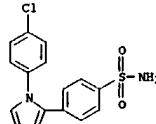


RN 197904-75-9 CAPLUS  
 CN Benzenesulfonamide, 4-[4-methyl-1-(4-methylphenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

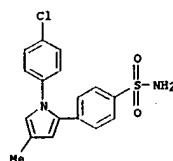


RN 197904-76-0 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

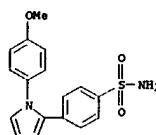
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197904-77-1 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

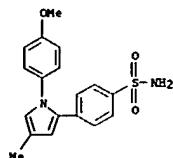


RN 197904-78-2 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

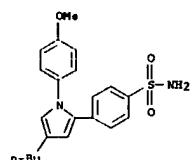


RN 197904-79-3 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

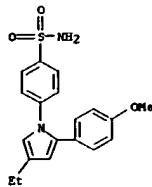


RN 197904-80-6 CAPLUS  
CN Benzenesulfonamide, 4-[4-butyl-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

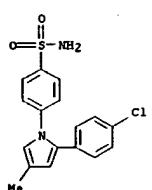


RN 197904-81-7 CAPLUS  
CN Benzenesulfonamide, 4-[4-ethyl-2-(4-methoxyphenyl)-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

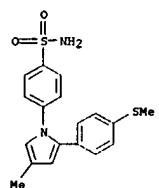


RN 197904-82-8 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-chlorophenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

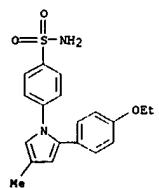


RN 197904-83-9 CAPLUS  
CN Benzenesulfonamide,  
4-[4-methyl-2-(4-(methylthio)phenyl)-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

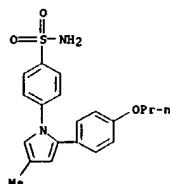


RN 197904-84-0 CAPLUS  
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(9CI) (CA INDEX NAME)

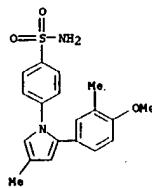


RN 197904-85-1 CAPLUS  
CN Benzenesulfonamide, 4-[4-methyl-2-(4-propoxyphenyl)-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

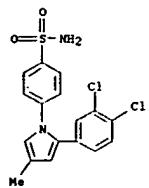


RN 197904-86-2 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(4-methoxy-3-methylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

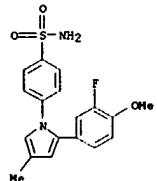


RN 197904-87-3 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(3,4-dichlorophenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

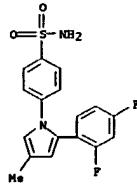


RN 197904-88-4 CAPLUS  
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 4-(2-(3-fluoro-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

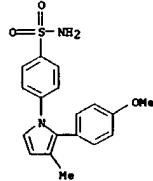


RN 197904-89-5 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(2,4-difluorophenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

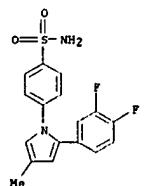


RN 197904-90-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(4-methoxyphenyl)-3-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

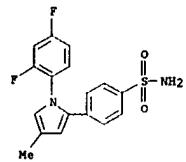


RN 197904-91-9 CAPLUS  
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 4-(2-(3,4-difluorophenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

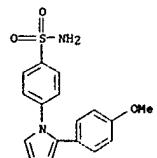
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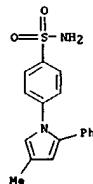
RN 197904-92-0 CAPLUS  
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 4-(1-(2,4-difluorophenyl)-4-methyl-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)



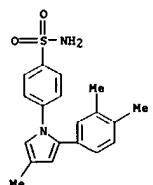
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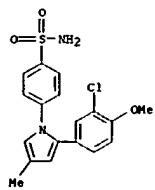
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-(4-methyl-2-phenyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

RN 197904-95-3 CAPLUS  
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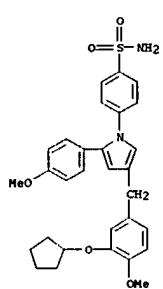


RN 197904-96-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3-chloro-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

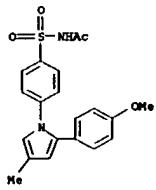


RN 197904-98-6 CAPLUS  
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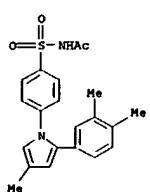


RN 197904-99-7 CAPLUS  
 CN Acetamide, N-[4-{2-[(4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]phenyl}sulfonyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

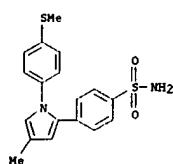


RN 197905-00-3 CAPLUS  
 CN Acetamide, N-[4-[(2-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

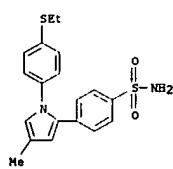


RN 197905-01-4 CAPLUS  
 CN Benzenesulfonamide,  
 4-(4-methyl-1-[(4-methylthio)phenyl]-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)

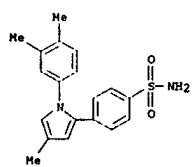
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



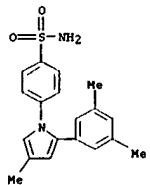
RN 197905-02-5 CAPLUS  
 CN Benzenesulfonamide,  
 4-[1-(4-(ethylthio)phenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



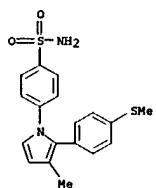
RN 197905-03-6 CAPLUS  
 CN Benzenesulfonamide,  
 4-[1-(3,4-dimethylphenyl)-4-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)



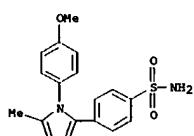
RN 197905-05-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-(2-(3,5-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl)-

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(9CI) (CA INDEX NAME)

RN 197905-06-9 CAPLUS  
 CN Benzenesulfonamide,  
 4-[3-methyl-2-[(4-methylthio)phenyl]-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)

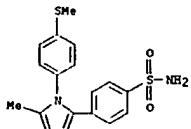


RN 197905-07-0 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-methoxyphenyl)-5-methyl-1H-pyrrol-2-yl]- (9CI) (CA INDEX NAME)

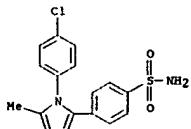


L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

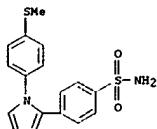
RN 197905-08-1 CAPLUS  
 CN Benzenesulfonamide,  
 4-[5-methyl-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



RN 197905-09-2 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-chlorophenyl)-5-methyl-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

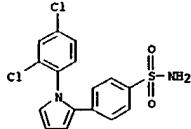


RN 197905-10-5 CAPLUS  
 CN Benzenesulfonamide, 4-[1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

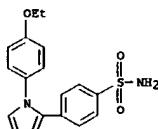


L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-11-6 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(2,4-dichlorophenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



RN 197905-12-7 CAPLUS  
 CN Benzenesulfonamide, 4-[1-(4-ethoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

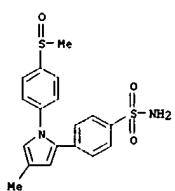


RN 197905-13-8 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-2-[4-(methylsulfinyl)phenyl]-1H-pyrrol-1-  
 yl]- (9CI) (CA INDEX NAME)

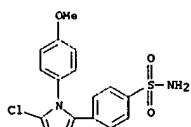


L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 197905-14-9 CAPLUS  
 CN Benzenesulfonamide,  
 4-[4-methyl-1-[4-(methylsulfinyl)phenyl]-1H-pyrrol-2-  
 yl]- (9CI) (CA INDEX NAME)

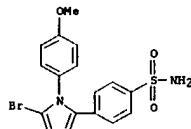


RN 197905-15-0 CAPLUS  
 CN Benzenesulfonamide, 4-[5-chloro-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

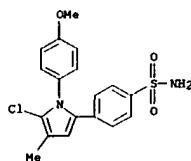


RN 197905-16-1 CAPLUS

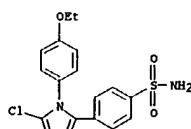
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 CN Benzenesulfonamide, 4-[5-bromo-1-(4-methoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)



RN 197905-17-2 CAPLUS  
 CN Benzenesulfonamide,  
 4-[5-chloro-1-(4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
 yl]- (9CI) (CA INDEX NAME)

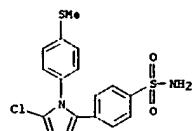


RN 197905-18-3 CAPLUS  
 CN Benzenesulfonamide, 4-[5-chloro-1-(4-ethoxyphenyl)-1H-pyrrol-2-yl]-  
 (9CI) (CA INDEX NAME)

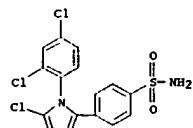


RN 197905-20-7 CAPLUS  
 CN Benzenesulfonamide,  
 4-[5-chloro-1-[4-(methylthio)phenyl]-1H-pyrrol-2-yl]-

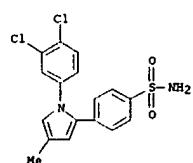
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(9CI) (CA INDEX NAME)



RN 197905-21-8 CAPLUS  
CN Benzenesulfonamide,  
4-(5-chloro-1-(2,4-dichlorophenyl)-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

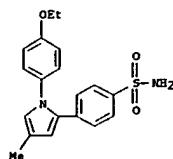


RN 197905-23-0 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(3,4-dichlorophenyl)-4-methyl-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

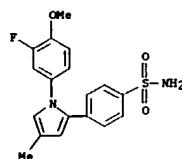


RN 197905-24-1 CAPLUS

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(9CI) Benzenesulfonamide, 4-[1-(4-ethoxyphenyl)-4-methyl-1H-pyrrol-2-yl]-  
(CA INDEX NAME)

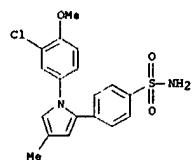


RN 197905-26-3 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(3-fluoro-4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
y]- (9CI) (CA INDEX NAME)

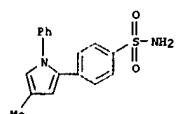


RN 197905-27-4 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(3-chloro-4-methoxyphenyl)-4-methyl-1H-pyrrol-2-  
y]- (9CI) (CA INDEX NAME)

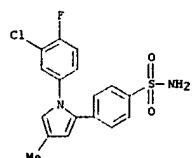
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-28-5 CAPLUS  
CN Benzenesulfonamide, 4-(4-methyl-1-phenyl-1H-pyrrol-2-yl)- (9CI) (CA INDEX NAME)

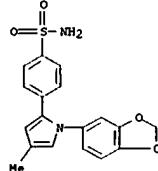


RN 197905-29-6 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(3-chloro-4-fluorophenyl)-4-methyl-1H-pyrrol-2-  
y)- (9CI) (CA INDEX NAME)

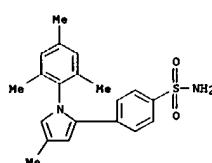


RN 197905-30-9 CAPLUS  
CN Benzenesulfonamide,  
4-(1-(1,3-benzodioxol-5-yl)-4-methyl-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

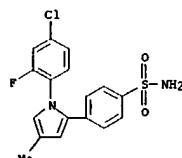
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-31-0 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(2,4,6-trimethylphenyl)-4-methyl-1H-pyrrol-2-yl]-  
(9CI) (CA INDEX NAME)

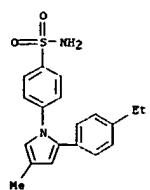


RN 197905-32-1 CAPLUS  
CN Benzenesulfonamide,  
4-[1-(4-chloro-2-fluorophenyl)-4-methyl-1H-pyrrol-2-  
y]- (9CI) (CA INDEX NAME)

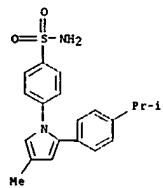


RN 197905-33-2 CAPLUS  
CN Benzenesulfonamide, 4-[2-(4-ethylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
(CA INDEX NAME)

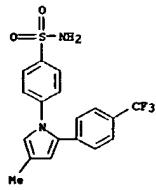


RN 197905-34-3 CAPLUS  
CN Benzenesulfonamide,  
4-(4-methyl-2-[(4-(1-methylethyl)phenyl)-1H-pyrol-1-  
yl]- (9CI) (CA INDEX NAME)

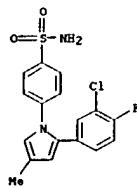


RN 197905-35-4 CAPLUS  
CN Benzenesulfonamide,  
4-(4-methyl-2-[(4-(trifluoromethyl)phenyl)-1H-pyrol-1-  
yl]- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

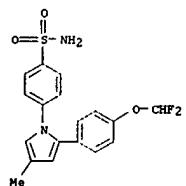


RN 197905-36-5 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3-chloro-4-fluorophenyl)-4-methyl-1H-pyrol-1-  
yl)- (9CI) (CA INDEX NAME)

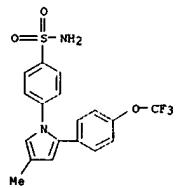


RN 197905-37-6 CAPLUS  
CN Benzenesulfonamide,  
4-(2-[4-(difluoromethoxy)phenyl]-4-methyl-1H-pyrol-1-  
yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

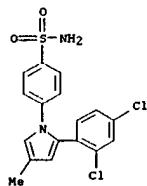


RN 197905-38-7 CAPLUS  
CN Benzenesulfonamide,  
4-(4-methyl-2-[(4-(trifluoromethoxy)phenyl)-1H-pyrol-1-  
yl]- (9CI) (CA INDEX NAME)

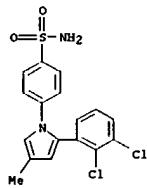


RN 197905-39-8 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,4-dichlorophenyl)-4-methyl-1H-pyrol-1-yl)-  
(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

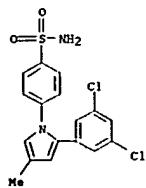


RN 197905-40-1 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,5-dichlorophenyl)-4-methyl-1H-pyrol-1-yl)-  
(9CI) (CA INDEX NAME)

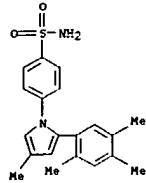


RN 197905-41-2 CAPLUS  
CN Benzenesulfonamide,  
4-(2-(3,5-dichlorophenyl)-4-methyl-1H-pyrol-1-yl)-  
(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

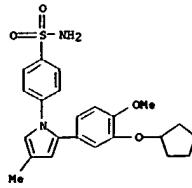


RN 197905-42-3 CAPLUS  
CN Benzenesulfonamide,  
4-[4-methyl-2-(2,4,5-trimethylphenyl)-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

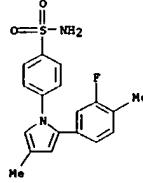


RN 197905-43-4 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(3-(cyclopentyloxy)-4-methoxyphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

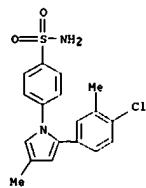


RN 197905-44-5 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(3-fluoro-4-methylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

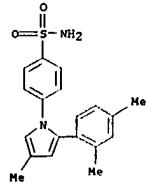


RN 197905-45-6 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(4-chloro-3-methylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

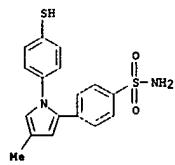
L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 197905-46-7 CAPLUS  
CN Benzenesulfonamide,  
4-[2-(2,4-dimethylphenyl)-4-methyl-1H-pyrrol-1-yl]-  
(9CI) (CA INDEX NAME)

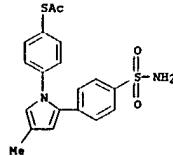


RN 197905-47-8 CAPLUS  
CN Benzenesulfonamide, 4-(1-(4-mercaptophenyl)-4-methyl-1H-pyrrol-2-yl)-  
(9CI) (CA INDEX NAME)

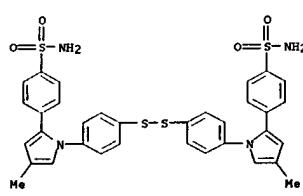


L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

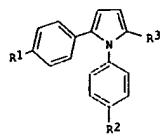
RN 197905-48-9 CAPLUS  
CN Ethanethioic acid,  
S-[4-[2-(4-aminosulfonyl)phenyl]-4-methyl-1H-pyrrol-1-yl]phenyl ester (9CI) (CA INDEX NAME)



IT 197906-24-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prep. of 1,2-diphenylpyrroles as cyclooxygenase-2 inhibitors)  
RN 197906-24-4 CAPLUS  
CN Benzenesulfonamide,  
4,4'-(dithiobis(4,1-phenylene(4-methyl-1H-pyrrole-1,2-diyil)))bis- (9CI) (CA INDEX NAME)



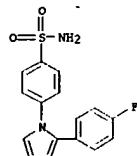
L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997:309988 CAPLUS  
 DOCUMENT NUMBER: 126:338393  
 TITLE: 1,2-Diarylpyrroles as potent and selective  
 inhibitors  
 AUTHOR(S): of cyclooxygenase-2  
 Khanna, Ish K.; Weier, Richard M.; Yu, Yi;  
 Collins, Paul W.; Miyashiro, Julie M.; Koboldt, Carol M.;  
 Veenhuizen, Amy W.; Currie, Jerry L.; Seibert,  
 Karen; Isakson, Peter C.  
 CORPORATE SOURCE: Discovery Medicinal Chemistry and Inflammatory  
 Disease Research, Searle Research and Development,  
 Skokie, IL, 60077, USA *May 23, 1997*  
 SOURCE: J. Med. Chem. (1997), 40(11), 1619-1633  
 CODEN: JMCHAR ISSN: 0022-2623  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English



AB Series of 1,2-diarylpyrroles has been synthesized and found to contain very potent and selective inhibitors of the human cyclooxygenase-2 (COX-2) enzyme. The paper describes short and practical syntheses of the target mols. utilizing the Paal-Knorr reaction. Electrophilic substitution on 1 proceeds in a regioselective fashion, and the method was used to generate a no. of tetrasubstituted pyrroles. Detailed SAR on the series has been studied by modifications of the aryl rings and the substituents in the pyrrole ring. Diarylpyrrole I (R1 = MeO2S, R2 = F, R3 = Me) is a very

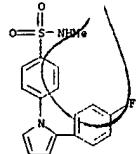
L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)  
 inhibitor whereas the isomeric I (R1 = F, R2 = MeO2S, R3 = Me) is completely inactive against COX-2. Modifications of the substituents on the fluorophenyl ring in I yields very potent inhibitors of COX-2 (IC50 = 40-80 nm) with excellent selectivity (1200 to >2500) vs. COX-1. An analog contg. a sulfonamide group is an excellent inhibitor of COX-2 with an IC50 of 14 nm. Tetrasubstituted pyrroles contg. groups such as COCP3, SO2CP3, or CH2OAr at position 3 in the pyrrole ring give excellent inhibitors (COX-2, IC50 = 30-120 nm). In vivo testing in the carrageenan-induced paw edema model in the rat establishes that the 1,2-diarylpyrroles are orally active antiinflammatory agents. Compd. I (R1 = F, R2 = MeO2S, R3 = H) is the most potent inhibitor of edema with an ED50 of 4.7 mpk.  
 IT 189501-09-5P 189501-10-8P  
 RL: BAC (Biological activity or effector, except adverse); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (Preparation)  
 (synthesis and structure of 1,2-diarylpyrroles as cyclooxygenase-2 inhibitors and orally active antiinflammatory agents)

RN 189501-09-5 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]- (9CI) (CA INDEX NAME)



RN 189501-10-8 CAPLUS  
 CN Benzenesulfonamide, 4-[2-(4-fluorophenyl)-1H-pyrrol-1-yl]-N-methyl- (9CI) (CA INDEX NAME)

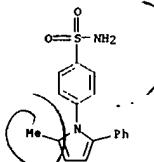
L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1970:100495 CAPLUS  
 DOCUMENT NUMBER: 72:100495  
 TITLE: 1-Phenylpyrroles  
 INVENTOR(S): Pons, Andre L.; Robba, Max F.; Marcy, Rene H.; Duval,  
 Denise J. C.  
 PATENT ASSIGNEE(S): Innothera  
 SOURCE: Ger. Offen., 94 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1938904	A	19700205	DE 1969-1938904	19690731
FR 7649	M	19700202	FR 1968-161664	19680802
FR 2054474	A6	19710423	FR 1969-23303	19690709
FR 2054474	B2	19730608		
GB 1263940	A	19720216	GB 1969-1263940	19690731
			FR 1968-161664	19680802
			FR 1969-23303	19690709

GI For diagram(s), see printed CA Issue.  
 AB 1-Phenylpyrroles (I) are prep'd. and investigated as pain killers and inflammation inhibitors for the treatment of arthritis, lumbago, and sciatica. Thus, 33 g .gamma.-oxovalerophenone and 25 g m-aminobenzoic acid was heated at 195.degree. to yield 95% I (R = m-CO2H, R1 = Me, R2 = Ph), m. 197.degree. (EtOH), LD50 (mg/kg in mice) i.v. 113, i.p. 430, and digestive 1850. Ninety I were prep'd. and the LD50 detd. for 20.  
 IT 26165-71-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prep'n. of)  
 RN 26165-71-9 CAPLUS  
 CN Benzenesulfonamide, p-(2-methyl-5-phenylpyrrol-1-yl)- (8CI) (CA INDEX NAME)



14 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2001 ACS

DOCUMENT NUMBER: 1969:68134 CAPLUS

10:68134

TITLE: Pyrrolpropionic acid

INVENTOR(S): Chaitin, Leland J.

PATENT ASSIGNEE(S): Searle, G. D., and Co.

SOURCE: U.S., 2 pp.

CODEN: USGKAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3427305	A	19690211	US 1966-591120	19661101

AB 3-[1-(R-Substituted)-2-(R1-substituted)-5-pyrrolyl]propionic acids (I), where R = p-sulfamoylphenyl or -benzyl and R1 = substituted phenyl, were

prepd. by condensing an appropriate oxo acid with an appropriate benzenesulfonamide. Yields were not stated. Thus, a mixt. of p-FCGH4CO(CH<sub>2</sub>)<sub>2</sub>CO<sub>2</sub>H 300, p-H<sub>2</sub>NCGH<sub>4</sub>SO<sub>2</sub>RH 200, p-MeCGH<sub>4</sub>SO<sub>3</sub>R 25, and

RH 8700 parts is refluxed 24 hrs. with removal of H<sub>2</sub>O and worked up to give I (R = p-H<sub>2</sub>NO<sub>2</sub>-SCGH<sub>4</sub>, R1 = p-FCGH<sub>4</sub>), m. 229.5-32.5.degree. (EtOAc).

Similarly prepd. were the following I (R, R1, and m.p. given): p-H<sub>2</sub>NO<sub>2</sub>-SCGH<sub>4</sub>CH<sub>2</sub>, p-FCGH<sub>4</sub>, 169.5-71.5.degree. (EtOAc-Et<sub>2</sub>O),

p-H<sub>2</sub>NO<sub>2</sub>-SCGH<sub>4</sub>, p-CICGH<sub>4</sub>, 256.5-9.5.degree. (Me<sub>2</sub>CO-EtOAc); p-H<sub>2</sub>NO<sub>2</sub>SC<sub>6</sub>-H<sub>4</sub>CH<sub>2</sub>,

m-BrCGH<sub>4</sub>, - and p-H<sub>2</sub>NO<sub>2</sub>SCGH<sub>4</sub>, p-MeCGH<sub>4</sub>, 176-80.5.degree. (EtOAc-hexane). The compds.

inhibit hemoglobin hydrolysis, and have antiinflammatory, antiedemic, and antibacterial properties.

IT 21766-08-5P 21766-10-9P 21766-12-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

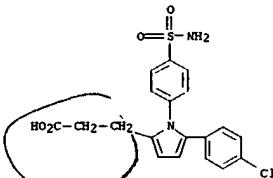
RN 21766-08-5 CAPLUS

CN Pyrrole-2-propionic acid, 5-(p-fluorophenyl)-1-(p-sulfamoylphenyl)-  
(8CI)  
(CA INDEX NAME)

14 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)

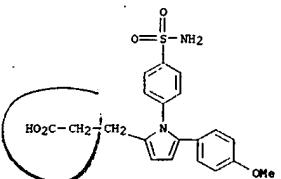


RN 21766-10-9 CAPLUS  
CN Pyrrole-2-propionic acid, 5-(p-chlorophenyl)-1-(p-sulfamoylphenyl)-  
(8CI)  
(CA INDEX NAME)



RN 21766-12-1 CAPLUS  
CN Pyrrole-2-propionic acid, 5-(p-methoxyphenyl)-1-(p-sulfamoylphenyl)-  
(8CI)  
(CA INDEX NAME)

14 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2001 ACS (Continued)



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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	66.75	204.26
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-8.82	-8.82

STN INTERNATIONAL LOGOFF AT 17:51:44 ON 17 APR 2001